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Water Resources Data for Colorado, Water Year 1981. Volume 3. Dolores River Basin Green River Basin, and San Juan River Basin

(U.S.) Geological Survey
Lakewood, CO

Jun 82

U.S. Department of Commerce
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U.S. Department of the Interior
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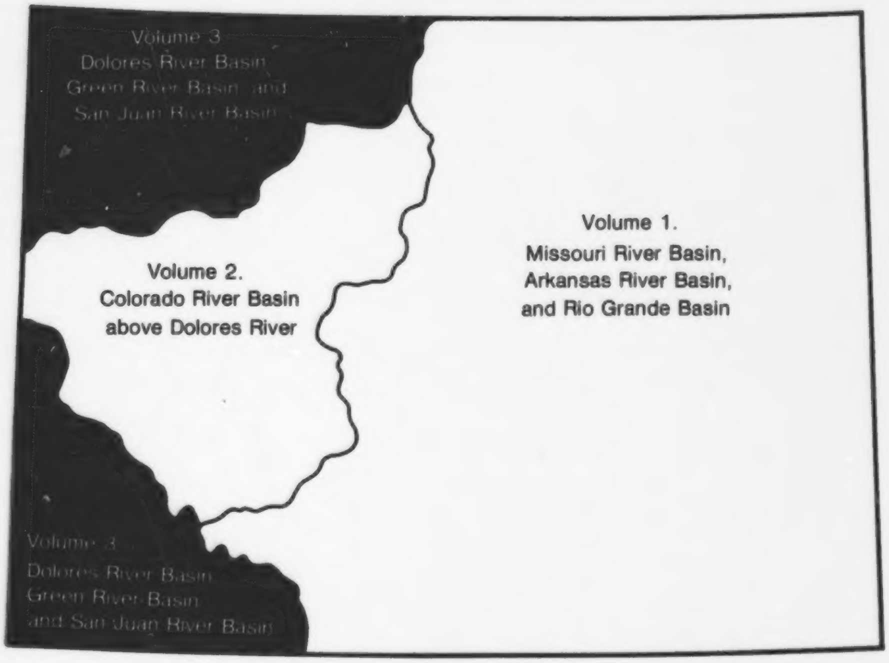
Water Resources Data Colorado Water Year 1981

Volume 3. Dolores River Basin, Green River Basin, and San Juan River Basin


Volume 3
Dolores River Basin
Green River Basin, and
San Juan River Basin
Volume 2.
Colorado River Basin
above Dolores River
Volume 1.
Missouri River Basin,
Arkansas River Basin,
and Rio Grande Basin
Volume 3
Dolores River Basin
Green River Basin
and San Juan River Basin

U.S. GEOLOGICAL SURVEY WATER-DATA REPORT CO-81-3
Prepared in cooperation with the State of Colorado
and with other agencies

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SPRINGFIELD, VA. 22161

CALENDAR FOR WATER YEAR 1981

1980

OCTOBER

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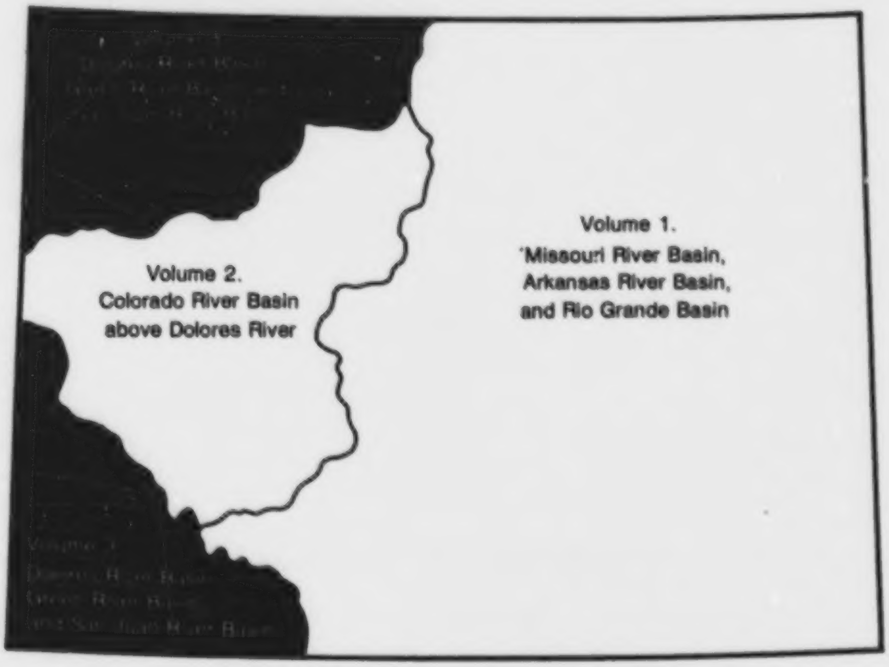
Water Resources Data
Colorado
Water Year 1981

Volume 3. Dolores River Basin, Green River Basin, and San Juan River Basin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U.S. GEOLOGICAL SURVEY WATER-DATA REPORT CO-81-3
Prepared in cooperation with the State of Colorado
and with other agencies

UNITED STATES DEPARTMENT OF THE INTERIOR

JAMES G. WATT, Secretary

GEOLOGICAL SURVEY

Dallas L. Peck, Director

For information on the water program in Colorado write to:

District Chief, Water Resources Division
U.S. Geological Survey
Box 25046, Mail Stop 415
Denver Federal Center
Lakewood, CO 80225

1982

PREFACE

This report was prepared by the U.S. Geological Survey in cooperation with the State of Colorado and other agencies by personnel of the Colorado District of the Water Resources Division under the supervision of J. F. Blakey, District Chief, and Alfred Clebsch, Jr., Regional Hydrologist, Central Region.

This report is one of a series issued State by State under the direction of Philip Cohen, Chief Hydrologist, Robert J. Dingman, Assistant Chief Hydrologist for Scientific Publications and Data Management.

Data for Colorado are in three volumes as follows:

Volume 1. Missouri River, Arkansas River, and Rio Grande basins in Colorado,
Volume 2. Colorado River basin in Colorado, above the Dolores River, and
Volume 3. Dolores River, Green River, and San Juan River basins in Colorado.

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Water-resources data for Colorado for the 1981 water year consists of records of stage, discharge, and water quality of streams; stage, contents and water quality of lakes and reservoirs, and water levels and water quality of wells and springs. This report (Volumes 1, 2, and 3) contains discharge records for about 460 gaging stations, stage and contents of 22 lakes and reservoirs, 4 partial-record low-flow stations, 30 crest-stage partial-record stations, and 50 miscellaneous sites; water quality for 163 gaging stations and 300 miscellaneous sites; and water levels for 55 observation wells. A few pertinent stations in bordering States also are included in this report. The records were collected and computed by the Water Resources Division of the U.S. Geological Survey under the direction of J. F. Blakey, district chief. These data represent that part of the National Water Data System collected by the U.S. Geological Survey and cooperating State and Federal agencies.

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GAGING STATIONS, IN DOWNSTREAM ORDER, FOR WHICH RECORDS ARE PUBLISHED

*[Letter after station name designates type and frequency of published data.
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(T) temperature, (e) elevation or contents, (O) dissolved oxygen, (P) pH.*

*Partial tables: (c) chemical, (b) biological, (m) microbiological,
(s) sediment, (t) temperature]*

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WATER RESOURCES DATA FOR COLORADO, 1981

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VOLUME 2: COLORADO RIVER BASIN ABOVE THE DOLORES RIVER
VOLUME 3: DOLORES, GREEN, AND SAN JUAN BASINS

INTRODUCTION

Water-resources data for the 1981 water year for Colorado consists of records of stage, discharge, and water quality of streams; stage, contents, and water quality of lakes and reservoirs; and water levels and water quality of wells and springs. This report (Volumes 1, 2, and 3) contains discharge records for about 450 streamflow-gaging stations, stage and contents of 22 lakes and reservoirs, low-flow data for 4 partial-record stations, peak flow information for 30 crest-stage partial-record stations and 50 miscellaneous sites; water-quality data for 163 streamflow-gaging stations and 300 miscellaneous sites; and water levels for 55 observation wells. Locations of lake- and streamflow-gaging stations and water-quality stations are shown in figure 1, locations of crest-stage partial-record stations are shown in figure 2, and locations of observation wells are shown in figure 3. A few pertinent stations in bordering States also are included in this report. The records were collected and computed by the Colorado District. These data represent that part of the National Water Data System collected by the U.S. Geological Survey and cooperating State and Federal agencies in Colorado.

Records of discharge and stage of streams, and contents and stage of lakes and reservoirs are published in a series of U.S. Geological Survey Water-Supply Papers entitled, "Surface-water Supply of the United States." These water-supply papers were published in an annual series through September 30, 1960, and then in 5-year compilations for 1961-65 and 1966-70. Records of chemical quality, water temperatures, and suspended sediment were published from 1941 to 1970 in an annual series of water-supply paper entitled "Quality of Surface Waters of the United States." Records of ground-water levels were published from 1935 to 1955 in an annual series of water-supply papers entitled "Water Levels and Artesian Pressures in Wells in the United States," and from 1955 to the present time, in a 5-year series of water-supply papers entitled "Ground-Water Levels in the United States." Water-supply papers may be purchased from Eastern Distribution Branch Text Products Section, U.S. Geological Survey, 604 South Pickett Street, Alexandria, VA 22304.

For water years 1961 through 1970, streamflow data were released by the Survey in annual reports on a State-boundary basis. Water-quality records for water years 1964 through 1970 were similarly released either in separate reports or in conjunction with streamflow records.

Beginning with the 1971 water year, water data for streamflow, water quality, and ground water are published in official Survey reports on State-boundary basis. These official Survey reports carry an identification number consisting of the two-letter State abbreviation, the last two digits of the water year, and the volume number. For example, this volume is identified as "U.S. Geological Survey Water-Data Report CO-81-3." These water-data reports are for sale, in paper copy or in microfiche, by the National Technical Information Service, U.S. Department of Comerce, Springfield, VA 22161.

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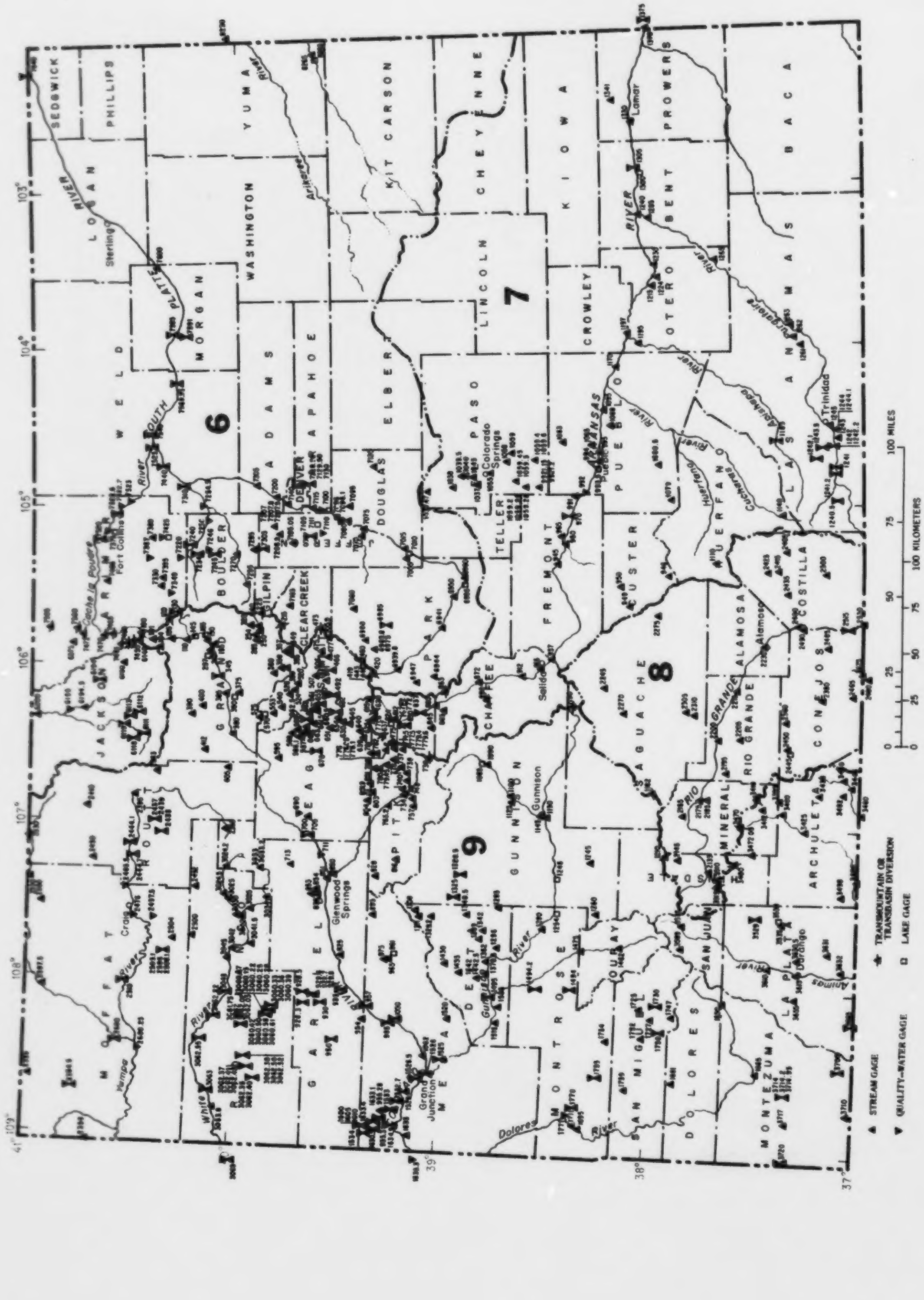
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▼ QUALITY-WATER GAGE
✦ TRANSMOUNTAIN OR TRANSBASIN DIVERSION
□ LAKE GAGE

Figure 1.—Map showing locations of lake- and stream-gaging stations and water-quality stations in Colorado.

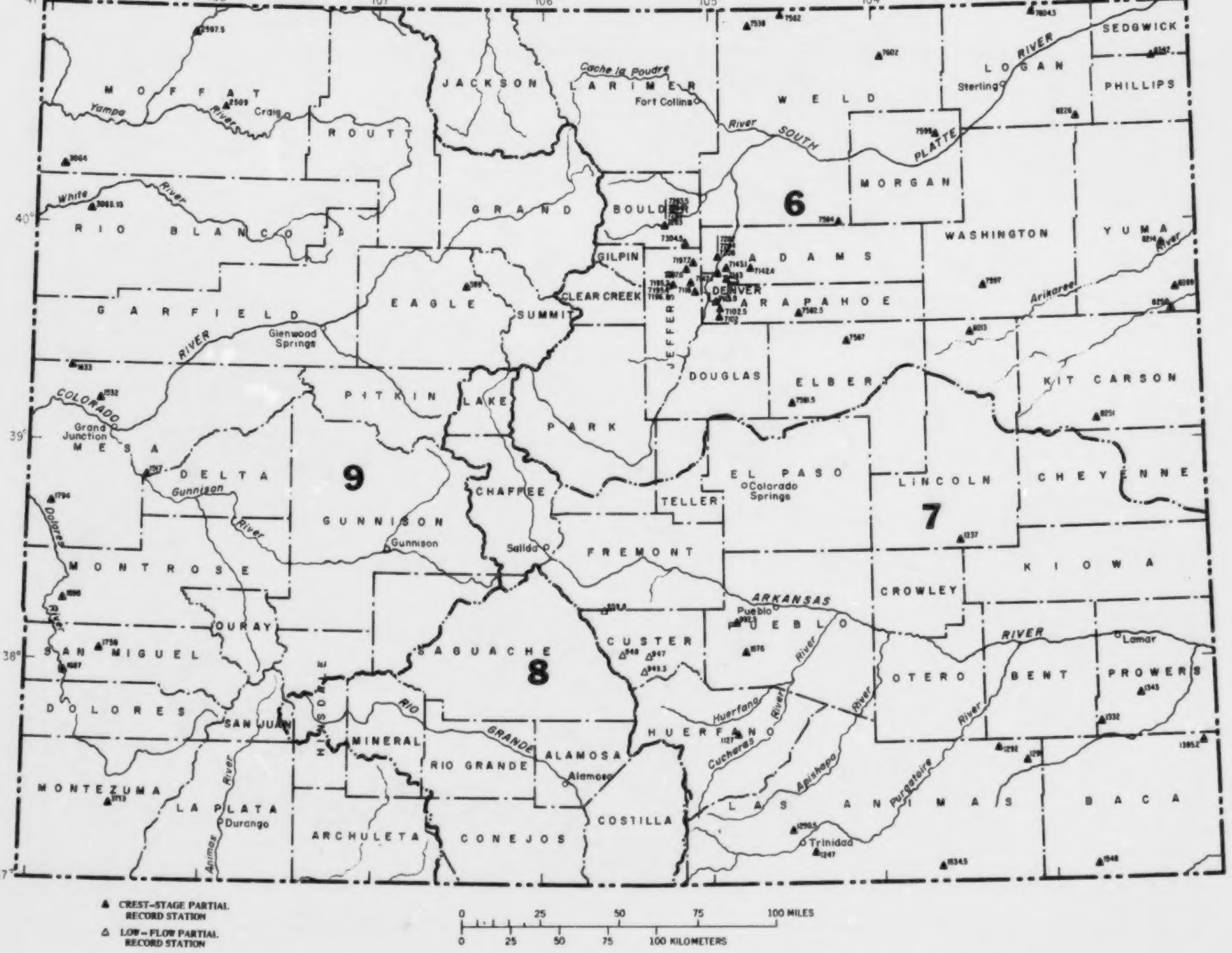

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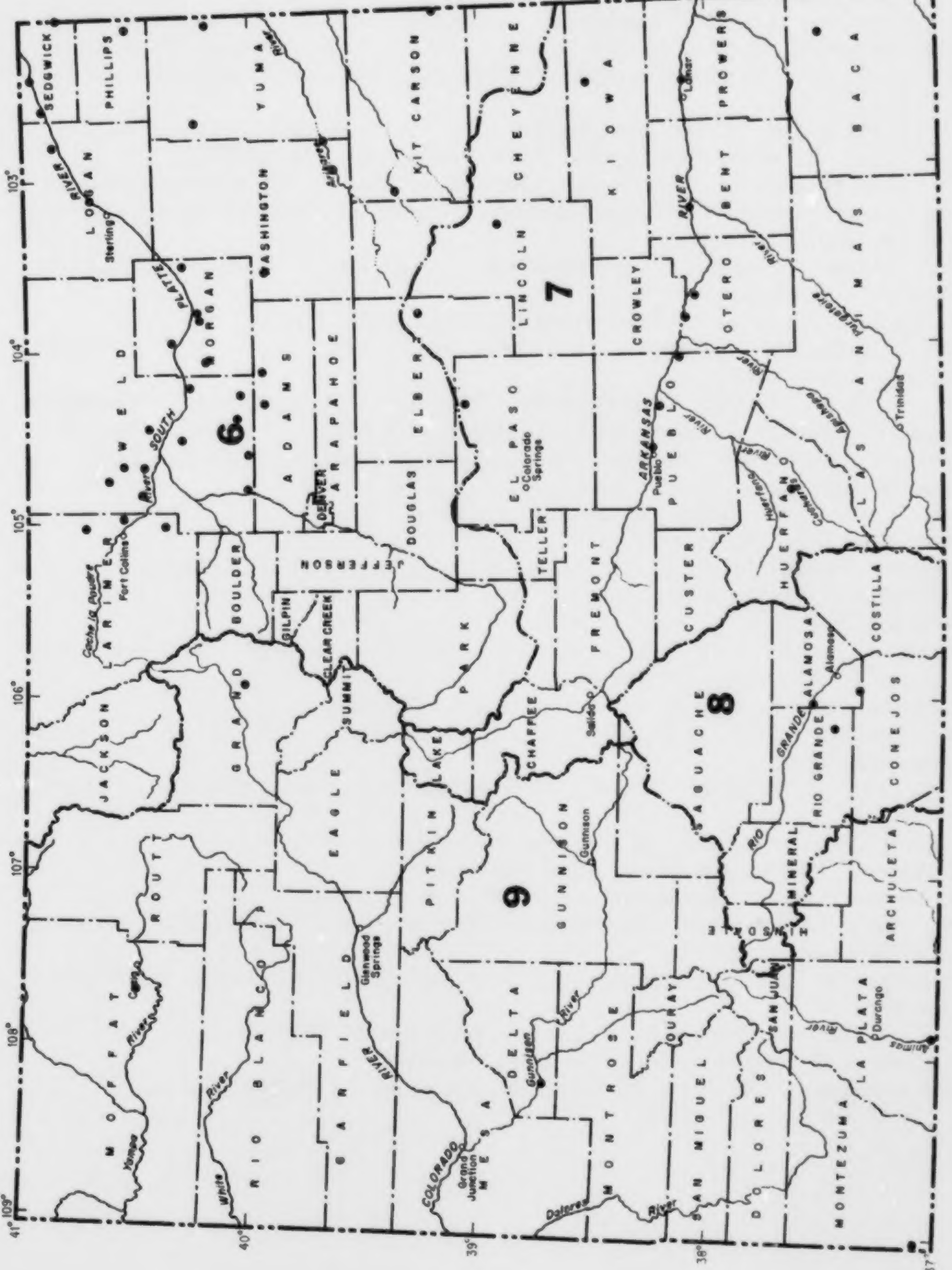
Figure 2.—Map showing locations of crest-stage partial-record stations in Colorado.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Pueblo
Lamar
Trinidad
Alamosa
Salida
Gunnison
Glenwood Springs
Grand Junction
Durango
SOUTH PLATTE RIVER
ARKANSAS RIVER
COLORADO RIVER
RIO GRANDE
Cache la Poudre
Yampa River
White River
Gunnison River
Dolores River
Purgatoire River
Huerfano River
Apishapa River
Arikaree
Animas
La Plata River
41°
40°
39°
38°
37°
109°
108°
107°
106°
105°
104°
103°
0 25 50 75 100 MILES
0 25 50 75 100 KILOMETERS

Figure 3.--Map showing locations of observation wells in Colorado.

COOPERATION

The U.S. Geological Survey and organizations of the State of Colorado have had cooperative agreements for the systematic collection of surface-water records since 1895, and for water-quality records since 1941. Organizations that assisted in collecting data for this report through cooperative agreement with the Survey are:

Colorado Division of Water Resources, J. A. Danielson, State Engineer.
Colorado Water Conservation Board, J. W. McDonald, Director.
Colorado Department of Highways, Jack Kinstlinger, Executive Director.
Arkansas River Compact Administration, Frank G. Cooley, Chairman and Federal Representative.
Colorado River Water Conservation District, Roland C. Fischer, Secretary-Engineer.
Denver Regional Council of Governments, Robert D. Farley, Exc.
Northern Colorado Water Conservation District, E. F. Phipps, Secretary-Manager.
Purgatoire River Water Conservancy District, Clyde Dawn, President.
Southwestern Water Conservation District, Robert H. Tyner, Manager.
Southeastern Colorado Water Conservancy District, C. L. Thomson, General Manager.
St. Vrain and Left Hand Water Conservancy District, James A. Cinea, Executive Director.
Uncompaghre Valley Water Users Association, James Herbit, Manager.
Urban Drainage and Flood Control District, L. Scott Tucker, Executive Director.
City and County of Denver, Board of Water Commissioners, Charles F. Brannan, President.
Eagle County Commissioners, Dale F. Grant, Chairman.
Mineral County, Nellie M. Wyley, Chairperson, Board of County Commissioners.
Pitkin County Board of County Commissioners, George Ochs, County Manager.
Pueblo Civil Defense, Betty Jo Hopper, Director.
City of Aspen, Phillip Mahoney, City Manager.
City of Aurora, C. A. Wemlinger, Director of Utilities.
Colorado City Water and Sanitation District, W. T. Hambric, District Administrator.
City of Colorado Springs, Department of Public Utilities, James D. Phillips, Director.
City of Fort Collins, Roger E. Krempel, Director of Utilities.
City of Glenwood Springs, John D. West, Manager.
City of Northglenn, Richard P. Lundahl, Director of Public Works.

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Some records have been collected and computed by contractors in accordance with U.S. Geological Survey specifications and under Geological Survey quality control.

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R. L. Tobin, Subdistrict Chief, E. A. Wilson, R. J. Boulger, T. A. Herrett, R. G. Carver, Paul Von Guerard, D. J. Hays, C. C. Pease, J. A. Tackman, S. C. Kent, and H. E. Stranathan, of the Meeker subdistrict office.

H. E. Burch, J. D. Bennett, and D. W. Grey of the Durango field office.

HYDROLOGIC CONDITIONS

Overview of the 1981 Water Year

The 1981 water year began with a major winter storm in mid October that covered the mountains with an early season snowpack. A pattern of dry warm weather began in early November and by December the drought was well established. Almost no precipitation fell east of or in the mountains from December to February. In March, several storms brought moisture to the eastern plains and to the higher elevations. The warm dry weather pattern returned in April, and by the end of the month snow remained on the ground only at elevations above 11,000 feet (3,353 meters). Weather in May was wet and cool and may have been the biggest factor in avoiding a major drought. However, the snowpack in May on the Upper Colorado River Basin was only about 31 percent of normal, and all snow-course measurements along the Continental Divide were the minimum of record for May 1. On June 3 a tornado struck the Denver Metropolitan area causing millions of dollars of damage and injuring scores of people. The rainfall in the area varied from 0.12 inches at the Stapelton weather station to 3.63 inches in Wheatridge. A sever thunder storm on July 3 in the Frijole Creek basin caused flash flooding. A railroad bridge was washed out causing a train wreck. Continued thunderstorm activity throughout the summer months helped to minimize the effect of the lack of precipitation during the water year.

Streamflow

Streamflow at the two index stations was near normal at the beginning of the water year and remained near normal until April. However, with practically no snow pack in the mountains to contribute to the runoff, the streamflow became deficient in April and remained that way the rest of the water year. By September, the streamflow decreased to 32 percent of normal at the Yampa River near Maybell index station and to 57 percent of normal in May for the Animas River at Durango index station.

Figure 4 compares monthly and annual mean discharge at two index sites with the 30-year (1951-80) median values of those discharges.

Chemical Quality of Streamflow

The average dissolved solids, hardness, and total nitrogen concentrations of selected streams statewide remained fairly consistent with the averages of the previous 5 years (fig. 5). Total phosphorus is the only exception shown where at some of the selected stream average concentrations were significantly lower. In general, waters discharging from the State to the east are much higher in dissolved solids than waters draining to the west. A majority of the dissolved solids are acquired as the water drains through the eastern plains area.

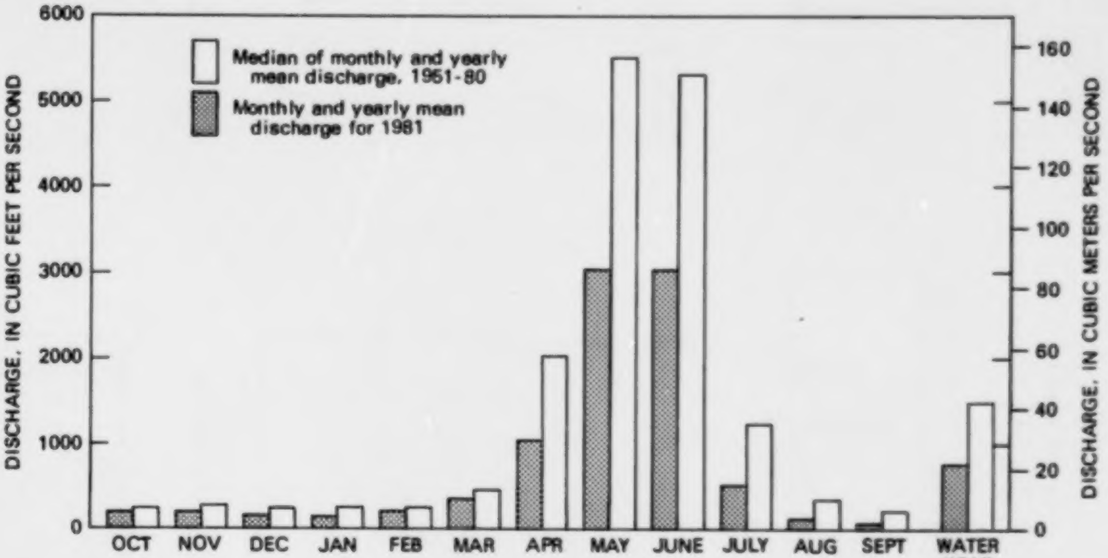
At numerous eastern drainage sites in the area above Pueblo, large concentrations of nitrogen have been observed and occasionally PCB's have been detected in the stream sedimentary material. Dissolved uranium in detectable concentrations is not uncommon in some of the waters draining the eastern part of the Rocky Mountains.

The average suspended-sediment concentrations of the selected streams in the State for the 1981 water year were generally higher than the averages of the previous 5 water years (fig. 5). A substantial increase of over 4 times the average suspended-sediment concentration was observed at the Colorado River near Colorado-Utah State Line site. The average concentrations shown indicate that those streams draining the western slope of Colorado have higher suspended-sediment concentrations than the ones draining the eastern slope.

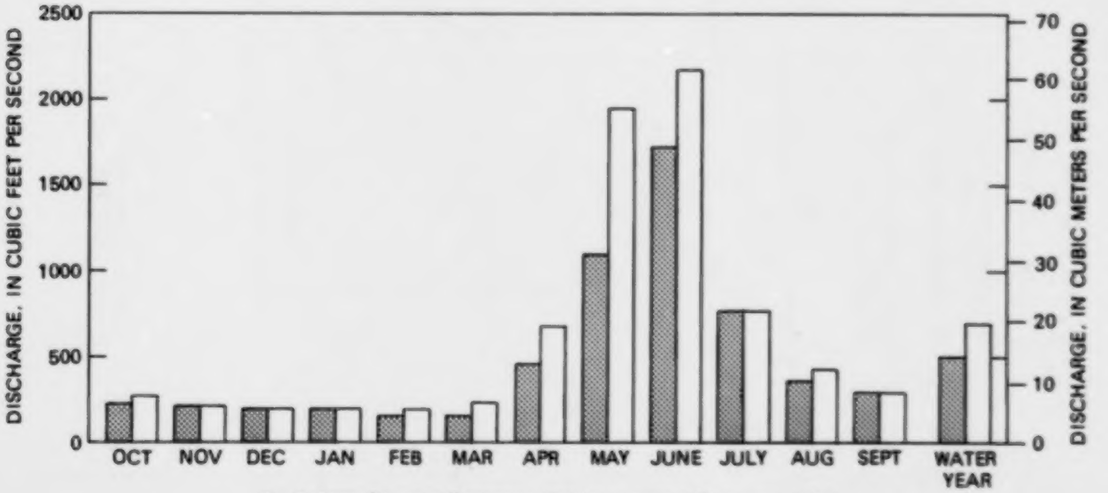
Ground-Water

Water levels show the response of the aquifer to pumping and recharge. Water levels also are used to help define hydrologic units and water-supply potential.

The aquifer systems within the State can be grouped into two catagories: unconsolidated aquifers and consolidated aquifers. The unconsolidated aquifers receive recharge from precipitation, return flow from irrigation, and leakage from canals and streams. Discharge from the system normally is by discharge to streams and by evapotransporation. The consolidated aquifers receive recharge from precipitation and streams crossing outcrop areas. The aquifers primarily discharge water to springs and streams.



A. **Yampa River near Maybell. Drainage area 3,410 square miles (8,830 square kilometers) approximately**



B. **Animas River at Durango. Drainage area 692 square miles (1,792 square kilometers)**

Figure 4.--Discharge for 1981 water year compared with median discharge for 1951-80 water years for two representative gaging stations.

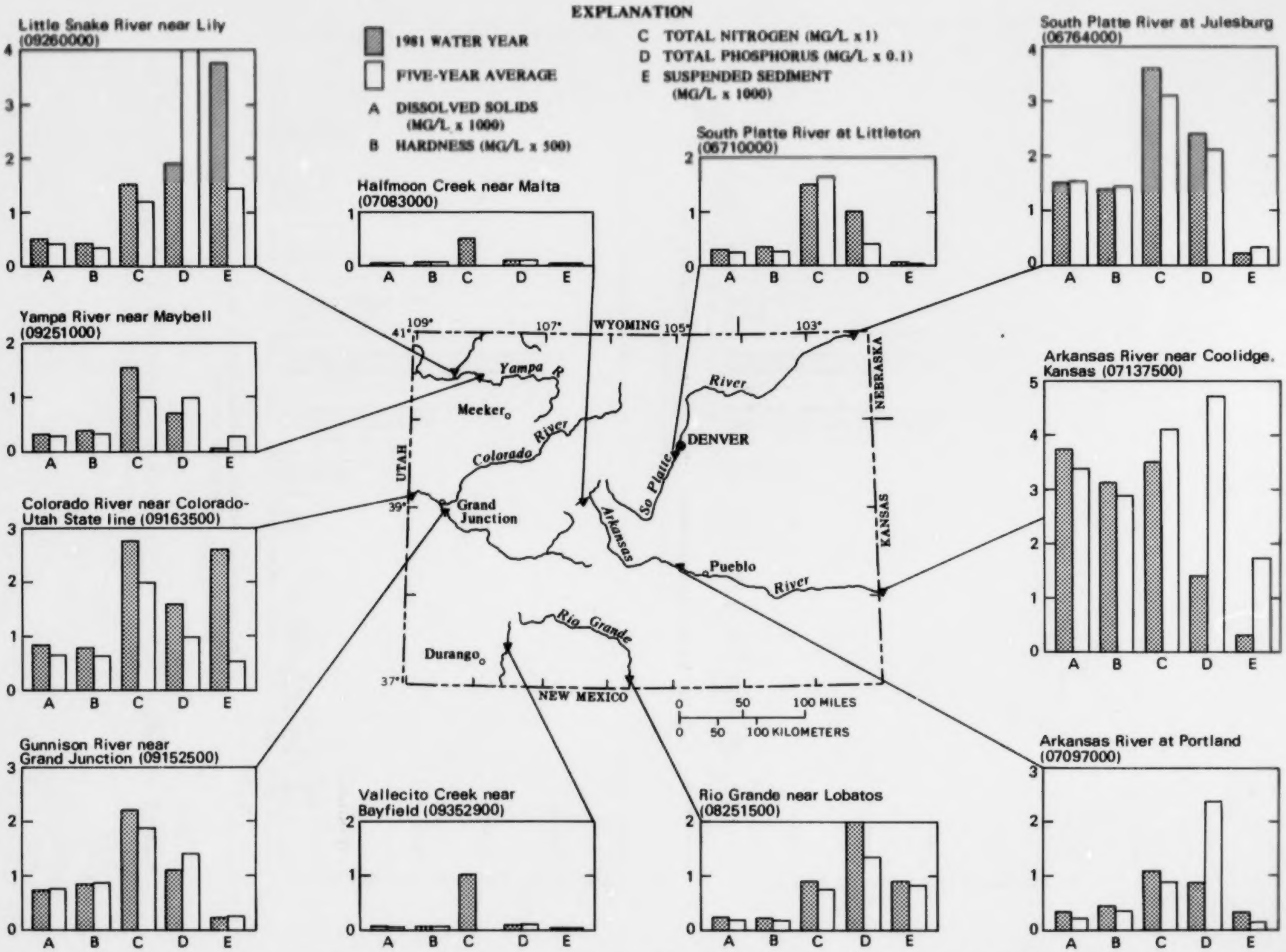


Figure 5.-- Average concentrations for 1981 water year compared with the average concentrations for 1976-80 water years.

East of the Continental Divide, because of the substantial utilization of ground water by man, the major fluctuations are caused by artificial withdrawal. West of the divide, where withdrawal is low, the water-level fluctuations reflect mostly changes in natural conditions.

Ground water is being mined from the aquifers in the Northern High Plains and in the Denver Basin. The aquifers in the alluvial valleys in eastern Colorado have been affected by ground-water pumping. Most of the aquifers in western Colorado are still under natural conditions except where ground water is being pumped for the production of energy resources.

DEFINITION OF TERMS

Terms related to streamflow, water quality, and other hydrologic data, as used in this report, are defined below. See also the table for converting inch-pound units to International System of units (SI) on the inside of the back cover.

Acre-foot (AC-FT, acre-ft) is the quantity of water required to cover 1 acre to a depth of 1 foot and is equivalent to 43,560 cubic feet or about 326,000 gallons or 1,233 cubic meters.

Algae are mostly aquatic single-celled, colonial, or multi-celled plants, containing chlorophyll and lacking roots, stems, and leaves.

Aquifer is a geologic formation, group of formations, or part of a formation that contains sufficient saturated permeable material to yield significant quantities of water to wells and springs.

Bacteria are microscopic unicellular organisms, typically spherical, rod like, or spiral and threadlike in shape, often clumped into colonies. Some bacteria cause disease, others perform an essential role in nature in the recycling of materials; for example, by decomposing organic matter into a form available for reuse by plants.

Total coliform bacteria are a particular group of bacteria that are used as indicators of possible sewage pollution. They are characterized as aerobic or facultative anaerobic, gram-negative, nonspore-forming, rod-shaped bacteria which ferment lactose with gas formation within 48 hours at 35°C. In the laboratory these bacteria are defined as all the organisms which produce colonies with a golden-green metallic sheen within 24 hours when incubated at 35°C ± 1.0°C on M-Endo medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample.

Fecal coliform bacteria are bacteria that are present in the intestines or feces of warm-blooded animals. They are often used as indicators of the sanitary quality of the water. In the laboratory they are defined as all organisms which produce blue colonies within 24 hours when incubated at 44.5°C ± 0.2C° on M-FC medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample.

Fecal streptococcal bacteria are bacteria found also in the intestines of warm-blooded animals. Their presence in water is considered to verify fecal pollution. They are characterized as gram-positive, cocci bacteria which are capable of growth in brain-heart infusion broth. In the laboratory they are defined as all the organisms which produce red or pink colonies within 48 hours at 35°C ± 1.0°C on M-enterrococcus medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample.

Bed material is the unconsolidated material of which the bottom of a streambed, lake, pond, reservoir, or estuary is composed.

Biochemical oxygen demand (BOD) is a measure of the quantity of dissolved oxygen, in milligrams per liter (mg/L), necessary for the decomposition of organic matter by microorganisms, such as bacteria.

Biomass is the amount of living matter present at any given time, expressed as the mass per unit area of volume of habitat.

Ash mass is the mass of amount of residue present after the residue from the dry mass determination has been ashed in a muffle furnace at a temperature of 500°C for 1 hour. The ash mass values of zooplankton and phytoplankton are expressed in grams per cubic meter (g/m^3), and those for periphyton and benthic organisms in grams per square meter (g/m^2).

Dry mass refers to the mass of residue present after drying in an oven at 60°C for zooplankton and 105°C for periphyton, until the mass remains unchanged. This mass represents the total organic matter, ash and sediment, in the sample. Dry mass values are expressed in the same units as ash mass.

Organic mass or volatile mass of the living substance is the difference between the dry mass and the ash mass, and represents the actual mass of the living matter. The organic mass is expressed in the same units as for ash mass and dry mass.

Wet mass is the mass of living matter plus contained water.

Bottom material: See Bed material.

Cells/volume refers to the number of cells of any organism which is counted by using a microscope and grid or counting cell. Many planktonic organisms are multicelled and are counted according to the number of contained cells per sample, usually milliliters (mL) or liters (L).

Cfs-day is the volume of water represented by flow of 1 cubic foot per second for 24 hours. It is equivalent to 86,400 cubic feet, approximately 1.9835 acre-feet, about 646,000 gallons or 2,447 cubic meters. It represents a runoff of approximately 0.0372 inch from 1 square mile, or 0.3468 millimeter from 1 square kilometer.

Chemical oxygen demand (COD) is a measure of the chemically oxidizable material in the water, and furnishes an approximation of the amount of organic and reducing material present. The determined value may correlate with natural water color or with carbonaceous organic pollution from sewage or industrial wastes.

Chlorophyll refers to the green pigments of plants. Chlorophyll a and b are the two most common pigments in plants.

Contents is the volume of water in a reservoir or lake. Unless otherwise indicated, volume is computed on the basis of a level pool and does not include bank storage.

Control designates a feature downstream from the gage that determines the stage-discharge relation at the gage. This feature may be a natural constriction of the channel, an artificial structure, or a uniform cross section over a long reach of the channel.

Cubic foot per second (cfs, ft^3/s) is the rate of discharge representing a volume of 1 cubic foot passing a given point during 1 second and is equivalent to approximately 7.48 gallons per second, or 448.8 gallons per minute, or 0.02832 cubic meters per second.

Discharge is the volume of water (or more broadly, volume of fluid plus suspended sediment), that passes a given point within a given period of time.

Mean discharge (MEAN) is the arithmetic mean of individual daily mean discharges during a specific period.

Instantaneous discharge is the discharge at a particular instant of time.

Dissolved refers to that material in a representative water sample which passes through a 0.45 μm membrane filter. This may include some very small (colloidal) suspended particles as well as the amount of substance present in true chemical solution. It is a convenient operational definition used by Federal agencies that collect water data. Determinations of "dissolved" constituents are made on subsamples of the filtrate.

Dissolved oxygen (DO) is the dissolved-oxygen content of water in equilibrium with air and is a function of atmospheric pressure and temperature and dissolved-solids concentration of the water. The capacity of water for dissolved-oxygen decreases as dissolved solids or temperature increase or as atmospheric pressure decreases. Dissolved-solids concentration has the least effect on dissolved-oxygen concentration. Photosynthesis and respiration may cause diel variations in dissolved-oxygen concentration in water from some streams.

Drainage area of a stream at a specific location is that area, measured in a horizontal plane, enclosed by a topographic divide from which direct surface runoff from precipitation normally drains by gravity into the stream above the specified point. Figures of drainage area given herein include all closed basins, or noncontributing areas, within the area unless otherwise noted.

Gage height (G.H.) is the water-surface elevation referred to some arbitrary gage datum. Gage height is often used interchangeably with the more general term "stage," although gage height is more appropriate when used with a reading on a gage.

Gaging station is a particular site on a stream, canal, lake, or reservoir where systematic observations of hydrologic data are obtained. When used in connection with a discharge record, the term is applied only to those gaging stations where a continuous record of discharge is computed.

Hardness of water is the physical-chemical characteristic that is commonly recognized by the increased quantity of soap required to produce lather. It is attributable to the presence of alkaline earths (principally calcium and magnesium) and is expressed as equivalent calcium carbonate ($CaCO_3$).

Micrograms per liter (UG/L, μg/L) is a unit expressing the concentration of chemical constituents in solution as mass (micrograms) of solute per unit volume (liter) of water. One thousand micrograms per liter is equivalent to one milligram per liter.

Milligrams per liter (MG/L, mg/L) is a unit for expressing the concentration of chemical constituents in solution. Milligrams per liter represent the mass of solute per unit volume (liter) of water. Concentration of suspended sediment also is expressed in mg/L, and is based on the mass of sediment per liter of water-sediment mixture.

Table 1.--Factors for conversion of chemical constituents in milligrams or micrograms per liter to milliequivalents per liter

Ion	Multi-ply by	Ion	Multi-ply by
Aluminum (Al^{+3})*	0.11119	Iodide (I^{-1})	0.00788
Ammonia as N	.07139	Iron (Fe^{+3})*	.05372
Barium (Ba^{+2})	.01456	Lead (Pb^{+2})*	.00965
Bicarbonate (HCO_3^{-1})	.01639	Lithium (Li^{+1})*	.14411
Bromide (Br^{-1})	.01251	Magnesium (Mg^{+2})	.08226
Calcium (Ca^{+2})	.04990	Manganese (Mn^{+2})*	.03640
Carbonate (CO_3^{-2})	.03333	Nickel (Ni^{+2})*	.03406
Chloride (Cl^{-1})	.02821	Nitrate as N	.07139
Chromium (Cr^{+6})*	.11539	Nitrite as N	.07139
Cobalt (Co^{+2})*	.03394	Phosphate,ortho as P	.09686
Copper (Cu^{+2})*	.03148	Potassium (K^{+1})	.02557
Cyanide (CN^{-1})	.03844	Sodium (Na^{+1})	.04350
Fluoride (F^{-1})	.05264	Strontium (Sr^{+2})*	.02283
Hydrogen (H^{+1})	.99209	Sulfate (SO_4^{-2})	.02082
Hydroxide (OH^{-1})	.05880	Zinc (ZN^{+2})*	.03060

*Constituents reported in micrograms per liter; multiply by factor and divide results by 1,000.

National Geodetic Vertical Datum of 1929 (NGVD) is a geodetic datum derived from a general adjustment of the first order level nets of both the United States and Canada. It was formerly called "Sea Level Datum of 1929" or "mean sea level" in this series of reports. Although the datum was derived from the average sea level over a period of many years at 26 tide stations along the Atlantic, Gulf of Mexico, and Pacific Coasts, it does not necessarily represent local mean sea level at any particular place.

Partial-record station is a particular site where limited streamflow or water-quality data are collected systematically over a period of years for use in hydrologic analyses.

Particle size is the diameter, in millimeters (mm), of suspended sediment or bed material determined either by sieve or sedimentation methods. Sedimentation methods (pipet, bottom-withdrawal tube, visual-accumulation tube) determine fall diameter of particles in either distilled water (chemically dispersed) or in native water (the river water at the time and point of sampling).

Table 2.--Factors for conversion of sediment concentration in milligrams per liter to parts per million*

[All values calculated to three significant figures]

Range of concentration in 1000 mg/L	Divide by	Range of concentration in 1000 mg/L	Divide by	Range of concentration in 1000 mg/L	Divide by	Range of concentration in 1000 mg/L	Divide by
0 - 8	1.00	201-217	1.13	411-424	1.26	619-634	1.39
8.05- 24	1.01	218-232	1.14	427-440	1.27	636-650	1.40
24.2 - 40	1.02	234-248	1.15	443-457	1.28	652-666	1.41
40.5 - 56	1.03	250-264	1.16	460-473	1.29	668-682	1.42
56.5 - 72	1.04	266-280	1.17	476-489	1.30	684-698	1.43
72.5 - 88	1.05	282-297	1.18	492-506	1.31	700-715	1.44
88.5 -104	1.06	299-313	1.19	508-522	1.32	717-730	1.45
105 -120	1.07	315-329	1.20	524-538	1.33	732-747	1.46
121 -136	1.08	331-345	1.21	540-554	1.34	749-762	1.47
137 -152	1.09	347-361	1.22	556-570	1.35	765-780	1.48
153 -169	1.10	363-378	1.23	572-585	1.36	782-796	1.49
170 -185	1.11	380-393	1.24	587-602	1.37	798-810	1.50
186 -200	1.12	395-409	1.25	604-617	1.38		

*Based on water density of 1.000 g/mL and a specific gravity of sediment of 2.65.

Particle-size classification used in this report agrees with recommendations made by the American Geophysical Union Subcommittee on Sediment Terminology. The classification is as follows:

Classification	Size (mm)	Method of analysis
Clay............	0.00024 - 0.004	Sedimentation
Silt............	.004 - .062	Sedimentation
Sand............	.062 - 2.0	Sedimentation or sieve
Gravel..........	2.0 - 64.0	Sieve

The particle-size distributions given in this report are not necessarily representative of all particles in transport in the stream. Most of the organic material is removed and the sample is subjected to mechanical and chemical dispersion before analysis in distilled water. Chemical dispersion is not used for native-water analysis.

Periphyton is the assemblage of microorganisms attached to, and growing upon, solid surfaces. While primarily consisting of algae, they also include bacteria, fungi, protozoa, rotifers, and other small organisms. Periphyton is a useful indicator of water quality.

Pesticide network is a network of regularly sampled water-quality stations where samples are collected to determine the concentration and distribution of pesticides in streams whose waters are used for irrigation or in streams in areas where potential contamination could result from the application of the commonly used insecticides and herbicides.

Pesticides are chemical compounds used to control undesirable plants and animals. Major categories of pesticides include insecticides, miticides, fungicides, herbicides, and rodenticides. Insecticides and herbicides, which control insects and plants respectively, are the two categories reported.

Phytoplankton is the plant part of the plankton. They are usually microscopic and their movement is subject to the water currents. Phytoplankton growth is dependent upon solar radiation and nutrient substances. Because they are able to incorporate as well as release materials to the surrounding water, the phytoplankton have a profound effect upon the quality of the water. They are the primary food producers in the aquatic environment, and are commonly known as algae.

Blue-green algae are a group of phytoplankton organisms having a blue pigment, in addition to the green pigment called chlorophyll. Blue-green algae often cause nuisance conditions in water.

Diatoms are the unicellular or colonial algae having a siliceous shell. Their concentrations are expressed as number of cells per mL of sample.

Green algae have chlorophyll pigments similar in color to those of higher green plants. Some forms produce algal mats or floating "moss" in lakes. Their concentrations are expressed as number of cells per mL of sample.

Picocurie (PC, pCi) is one trillionth (1×10^{-12}) of the amount of radioactivity represented by a curie (Ci). A curie is the amount of radioactivity that yields 3.7×10^{10} radioactive disintegrations per second. A picocurie yields 2.22 disintegrations per minute (dpm).

Polychlorinated biphenyls (PCBs) are industrial chemicals that are mixtures of chlorinated biphenyl compounds having various percentages of chlorine. They are similar in structure to organochlorine insecticides.

Radiochemical network is a network of regularly sampled water-quality stations where samples are collected monthly or twice a year (at high and low flow) to be analyzed for radioisotopes. The streams that are sampled represent major drainage basins in the conterminous United States.

Radioisotopes are isotopic forms of an element that exhibit radioactivity. Isotopes are varieties of a chemical element that differ in atomic weight, but are very nearly alike in chemical properties. The difference arises because the atoms of the isotopic forms of an element differ in the number of neutrons in the nucleus. For example: Ordinary chlorine is a mixture of isotopes having atomic weights 35 and 37, with the natural mixture having atomic weight about 35.453. Many of the elements similarly exist as mixtures of isotopes, and a great many new isotopes have been produced in the operation of nuclear devices such as the cyclotron (Rose and Rose, 1966). There are 275 isotopes of the 81 stable elements in addition to over 800 radioactive isotopes.

Radioisotopes that are determined in this program are natural uranium in μg/L (micrograms per liter), radium as radium-226 in PC/L (pCi/L, picocuries per liter), gross beta radiation as equivalent strontium/yttrium-90 or cesium-137 in PC/L, and gross alpha radiation as micrograms of uranium equivalent per liter (μg/L). Gross alpha and beta radioactivity associated with the fine-grained (silt and clay-sized) sediments in the samples are also determined.

Recoverable from bottom material the amount of a given constituent that is in solution after a representative sample of bottom material has been digested by a method (usually using an acid or mixture of acids) that results in dissolution of only readily soluble substances. Complete dissolution of all bottom material is not achieved by the digestion treatment and thus the determination represents less than the total amount (that is, less than 95 percent) of the constituent in the sample. To achieve comparability of analytical data, equivalent digestion procedures would be required of all laboratories performing such analyses because different digestion procedures are likely to produce different analytical results.

Sediment is solid material that originates mostly from disintegrated rocks and is transported by, suspended in, or deposited from water; it includes chemical and biochemical precipitates and decomposed organic material, such as humus. The quantity, characteristics, and cause of the occurrence of sediment in streams are influenced by environmental factors. Some major factors are degree of slope, length of slope, soil characteristics, land usage, and quantity and intensity of precipitation.

Suspended sediment is the sediment that at any given time is maintained in suspension by the upward components of turbulent currents or that exists in suspension as a colloid.

Suspended-sediment concentration is the velocity-weighted concentration of suspended sediment in the sampled zone (from the water surface to a point approximately 0.3 ft (0.09 m) above the bed) expressed as milligrams of dry sediments per liter of water-sediment mixture (mg/L).

Suspended-sediment discharge (tons/day) is the rate at which dry weight of sediment passes a section of a stream or is the quantity of sediment, as measured by dry weight or volume, that passes a section in a given time. It is computed by multiplying discharge in cfs times concentration in mg/L times 0.0027.

Suspended-sediment load is that quantity of suspended sediment passing a section in a specified period.

Total sediment discharge or total sediment load is the sum of the suspended-sediment discharge and the bedload discharge. It is the total quantity of sediment, as measured by dry weight or volume, that passes a section during a given time.

Mean concentration is the time-weighted concentration of suspended sediment passing a stream section during a 24-hour day.

Sodium adsorption ratio (SAR) is the expression of relative activity of sodium ions in exchange reactions with soil and is an index of sodium or alkali hazard to the soil. This ratio should be known especially for water used for irrigating farmland.

Solute is any substance derived from the atmosphere, vegetation, soil, or rocks and is dissolved in water.

Specific conductance is a measure of the ability of a water to conduct an electrical current. It is expressed in micromhos per centimeter at 25°C. Specific conductance is related to the number and specific chemical types of ions in solution and can be used for approximating the dissolved-solids content in the water. Commonly, the concentration of dissolved solids (in milligrams per liter) is about 65 percent of the specific conductance (in micromhos). This relation is not constant from stream to stream or from well to well, and it may vary in the same source with changes in the composition of the water.

Stage-discharge relation is the relation between gage height (stage) and volume of water per unit of time, flowing in a channel.

Streamflow is the discharge that occurs in a natural channel. Although the term "discharge" can be applied to the flow of a canal, the word "streamflow" uniquely describes the discharge in a surface stream course. The term "streamflow" is more general than "runoff" as streamflow may be applied to discharge whether or not it is affected by diversion or regulation.

Suspended, recoverable the amount of a given constituent that is in solution after the part of a representative water-suspended sediment sample that is retained on a 0.45 μm membrane filter has been digested by a method (usually using a dilute acid solution) that results in dissolution of only readily soluble substances. Complete dissolution of all the particulate matter is not achieved by the digestion treatment and thus the determination represents something less than the "total" amount (that is, less than 95 percent) of the constituent present in the sample. To achieve comparability of analytical data, equivalent digestion procedures would be required of all laboratories performing such analyses because different digestion procedures are likely to produce different analytical results.

Determinations of "suspended, recoverable" constituents are made either by analyzing portions of the material collected on the filter or, more commonly, by difference, based on determinations of (1) dissolved and (2) total recoverable concentrations of the constituent.

Suspended, total the total amount of a given constituent in the part of a representative water-suspended sediment sample that is retained on a 0.45 µm membrane filter. This term is used only when the analytical procedure assures measurement of at least 95 percent of the constituent determined. A knowledge of the expected form of the constituent in the sample, as well as the analytical methodology used, is required to determine when the results should be reported as "suspended, total."

Determinations of "suspended, total" constituents are made either by analyzing portions of the material collected on the filter or, more commonly, by difference, based on determinations of (1) dissolved and (2) total concentrations of the constituent.

Thermograph is a thermometer that continuously and automatically records, on a chart, the water temperature of a stream. "Temperature recorder" is the term used to indicate the location of the thermograph.

Time-weighted average is computed by multiplying the number of days in the sampling period by the concentrations of individual constituents for the corresponding period and dividing the sum of the products by the total number of days. A time-weighted average represents the composition of water that would be contained in a vessel or reservoir that had received equal quantities of water from the stream each day for the water year.

Tons per acre-foot indicates the dry mass of dissolved solids in 1 acre-foot of water. It is computed by multiplying the concentration in milligrams per liter by 0.00136.

Tons per day is the quantity of a substance in solution or suspension that passes a stream section during a 24-hour period.

Total the total amount of a given constituent in a representative water-suspended sediment sample, regardless of the constituent's physical or chemical form. This term is used only when the analytical procedure assures measurement of at least 95 percent of the constituent present in both the dissolved and suspended phases of the sample. A knowledge of the expected form of the constituent in the sample, as well as the analytical methodology used, is required to judge when the results should be reported as "total." (note that the word "total" does double duty here, indicating both that the sample consists of a water-suspended sediment mixture and that the analytical method determines all of the constituent in the sample.)

Total in bottom material the total amount of a given constituent in a representative sample of bottom material. This term is used only when the analytical procedure assures measurement of at least 95 percent of the constituent determined. A knowledge of the expected form of the constituent in the sample, as well as the analytical methodology used, is required to judge when the results should be reported as "total in bottom material."

Total, recoverable the amount of a given constituent that is in solution after a representative water-suspended sediment sample has been digested by a method (usually using a dilute acid solution) that results in dissolution of only readily soluble substances. Complete dissolution of all particulate matter is not achieved by the digestion treatment, and thus the determination represents something less than the "total" amount (that is, less than 95 percent) of the constituent present in the dissolved and suspended phases of the sample. To achieve comparability of analytical data, equivalent digestion procedures would be required of all laboratories performing such analyses because different digestion procedures are likely to produce different analytical results.

Water year in the U.S. Geological Survey is the 12-month period, October 1 through September 30. The water year is designated by the calendar year in which it ends and which includes 9 of the 12 months. Thus, the year ending September 30, 1981, is called the "1981 water year."

Weighted average is used in this report to indicate the discharge-weighted average. It is computed by multiplying the discharge for a sampling period by the concentrations of individual constituents for the corresponding period and dividing the sum of the products by the sum of the discharges. A discharge-weighted average approximates the composition of water that would be found in a reservoir containing all the water passing a given location during the water year after thorough mixing in the reservoir.

WRD is an abbreviation for "Water-Data Report" in the summary REVISIONS paragraph to refer to State annual basic-data reports published prior to 1975.

WDR is used as an abbreviation for "Water-Resources Data" in the summary REVISIONS paragraph to refer to State annual basic-data reports published after 1975.

WSP is used as an abbreviation for "Water-Supply Paper" in reference to previously published reports.

Zooplankton is the animal part of the plankton. Zooplankton are capable of extensive movements within the water column, and are often large enough to be seen with the unaided eye. Zooplankton are secondary consumers feeding upon bacteria, phytoplankton, and detritus. Because they are the grazers in the aquatic environment, the zooplankton are a vital part of the aquatic food web. The zooplankton community is dominated by small crustaceans and rotifers.

DOWNSTREAM ORDER AND STATION NUMBER

Stations are listed in a downstream direction along the main stream, and stations on tributaries are listed between stations on the main stream in the order in which those tributaries enter the main stream. Stations on tributaries entering above all mainstream stations are listed before the first mainstream station. Stations on tributaries to tributaries are listed in a similar manner. In the list of gaging stations in the front of this report the rank of tributaries is indicated by indention, each indention representing one rank.

As an added means of identification, each gaging station and each partial-record station has been assigned a station number. These are in the same downstream order used in this report. In assigning station numbers, no distinction is made between partial-record stations and continuous-record gaging stations; therefore, the station number for a partial-record station indicates downstream order position in a list made up of both types of stations. Water-quality stations located at or near gaging stations or partial-record stations have the same number as the gaging or partial-record station.

Gaps are left in the sequential allocation of numbers to allow for new stations that may be established; hence the numbers are not consecutive. The complete 8-digit number for each station, such as 07083000, which appears just to the left of the station name, includes the 2-digit part number "07" plus the 6-digit downstream order number "083000." In this report the records are listed in downstream order by parts. The part number refers to an area whose boundaries coincide with certain natural drainage lines. Records in this report are for Part 6 (Missouri River basin), Part 7 (Lower Mississippi River basin), and Part 8 (Western Gulf of Mexico basins). Records for Part 9 (Colorado River Basin) are in Volumes 2 and 3. All records for a drainage basin encompassing more than one State can be arranged in downstream order by assembling pages from the various State reports by station number to include all records in the basin.

SPECIAL NETWORKS AND PROGRAMS

Some of the stations for which data are published in this report are included in special networks and programs. These stations are identified by their title, set in parentheses, under the station name.

Hydrologic bench-mark station is one that provides hydrologic data for a basin in which the hydrologic regimen will likely be governed solely by natural conditions. Data collected at a bench-mark station may be used to separate effects of natural from manmade changes in other basins which have been developed and in which the physiography, climate, and geology are similar to those in the undeveloped bench-mark basin.

Irrigation-network stations are water-quality stations located at or near certain streamflow gaging stations west of the main stem of the Mississippi River. Data collected at these stations are used to evaluate the chemical quality of surface waters used for irrigation and the changes resulting from the drainage of irrigated lands. Prior to water year 1966, the data for these stations were published in the annual Water-Supply Paper series, "Quality of Surface Water for Irrigation, Western States."

National stream-quality accounting network (NASQAN) is a data collection network designed by the U.S. Geological Survey to meet many of the information demands of agencies or groups involved in national or regional water-quality planning and management. Both accounting and broad-scale monitoring objectives have been incorporated in the network design. Areal configuration of the network is based on river-basin accounting units (identified by 8-digit hydrologic-unit numbers) designated by the Office of Water Data Coordination in consultation with the Water Resources Council. Primary objectives of the network are: (1) To depict areal variability of streamflow and water-quality conditions nationwide on a year-by-year basis, and (2) to detect and assess long-term changes in streamflow and stream quality.

EXPLANATION OF STAGE AND WATER-DISCHARGE RECORDS

Collection and Computation of Data

The base data collected at gaging stations consist of records of stage and measurements of discharge of streams or canals, and stage, surface area, and contents of lakes or reservoirs. In addition, observations of factors affecting the stage-discharge relation or the stage-capacity relation, weather records, and other information are used to supplement base data in determining the daily flow or volume of water in storage. Records of stage are obtained from direct readings on a nonrecording gage or from a water-stage recorder that gives either a continuous graph of the fluctuations or a tape punched at 5-, 15-, 30- or 60-minute intervals. Measurements of discharge are made with a current meter, using the general methods adopted by the U.S. Geological Survey on the basis of experience in stream gaging since 1888. These methods are described in standard textbooks, in Water-Supply Paper 888, and in U.S. Geological Survey Techniques of Water Resources Investigations, book 3, chapter A6. Surface areas of lakes or reservoirs are determined from instrument surveys using standard methods. The configuration of the reservoir bottom is determined by sounding at many points.

For stream-gaging stations, rating tables giving the discharge for any stage are prepared from stage-discharge relation curves. If extensions to the rating curves are necessary to express discharge greater than measured, they are made on the basis of indirect measurements of peak discharge (such as slope-area or contracted-opening measurements, computation of flow over dams or weirs), step-backwater techniques, velocity-area studies, and logarithmic plotting. The daily mean discharge is computed from gage heights and rating tables, then the monthly and yearly mean discharge are computed from the daily figures. If the stage-discharge relation is subject to change because of frequent or continual change in the physical features that form the control, the daily mean discharge is computed by the shifting-control method, in which correction factors based on individual discharge measurements and notes by hydrologists and observers are used in applying the gage heights to the rating tables. If the stage-discharge relation for a station is temporarily changed by the presence of aquatic growth or debris on the control, the daily mean discharge is computed by what is basically the shifting-control method.

At some stream-gaging stations the stage-discharge relation is affected by ice in the winter, and it becomes impossible to compute the discharge in the usual manner. Discharge for periods of ice effect is computed on the basis of the gage-height record and winter discharge measurements, consideration being given to the available information on temperature and precipitation, notes by gage observers and hydrologists, and comparable records of discharge for other stations in the same or nearby basins.

For a lake or reservoir station, capacity tables giving the contents for any stage are prepared from stage-area relation curves defined by surveys. The application of the stage to the capacity table gives the contents, from which the daily, monthly, or yearly change in contents is computed.

If the stage-capacity curve is subject to changes because of deposition of sediment in the reservoir, periodic resurveys of the reservoir are necessary to define new stage-capacity curves. During the period between reservoir surveys the computed contents may be increasingly in error due to the gradual accumulation of sediment.

For some gaging stations there are periods when no gage-height record is obtained or the recorded gage height is so faulty that it cannot be used to compute daily discharge or contents. This happens when the recorder stops or otherwise fails to operate properly, intakes are plugged, the float is frozen in the well, or for various other reasons. For such periods the daily discharges are estimated on the basis of recorded range in stage, adjoining good record, discharge measurements, weather records, and comparison with other station records from the same or nearby basins. Likewise, daily contents may be estimated on the basis of operator's log, adjoining good record, inflow-outflow studies, and other information.

The data in this report generally comprise a description of the station and tabulations of daily and monthly figures. For gaging stations on streams or canals a table showing the daily discharge and monthly and yearly discharge is given. For gaging stations on lakes and reservoirs a monthly summary table of stage and contents or a table showing the daily contents is given. Records are published for the water year, which begins on October 1 and ends on September 30. A calendar for the current water year is shown on the inside of the front cover to facilitate finding the day of the week for any date.

The description of the gaging station gives the location, drainage area, period of record, notations of revisions of previously published records, type and history of gages, general remarks, average discharge, and extremes of discharge or contents. The location of the gaging station and the drainage area are obtained from the most accurate maps available. Periods for which there are published records for the present station or for stations generally equivalent to the present one are given under "PERIOD OF RECORD."

Previously published streamflow records of some stations have been found to be in error on the basis of data or information later obtained. Revisions of such records are usually published along with the current records in one of the annual or compilation reports. In order to make it easier to find such revised records, a paragraph headed "REVISED RECORDS" has been added to the description of all stations for which revised records have been published. Listed therein are all the reports in which revisions have been published, each followed by the water years for which figures are revised in that report. In listing the water years only one number is given; for instance, 1933 stands for the water year October 1, 1932, to September 30, 1933. If no daily, monthly, or annual figures of discharge are affected by the revisions, the fact is brought out by notations after the year dates as follows: "(M)" means that only the instantaneous maximum discharge was revised; "(m)" that only the instantaneous minimum was revised; and "(P)" that only peak discharges were revised. If the drainage area has been revised, the report in which the revised figure was first published is given.

The type of gage currently in use, the datum of the present gage above mean sea level, referred to National Geodetic Vertical Datum; and a condensed history of the types, locations, and datums of previous gages used during the period of record are given under "GAGE." In references to datum of gage, the phrase "mean sea level" denotes "Sea Level Datum of 1929" as used by the Topographic Division of the Geological Survey unless otherwise qualified. National Geodetic Vertical Datum is explained in "DEFINITION OF TERMS."

Information pertaining to the accuracy of the discharge records, to conditions which affect the natural flow of the gaging station, availability of water-quality records, and reservoir stations information on the dam forming the reservoir, the capacity, outlet works and spillway, and purpose and use of the reservoir, is given under "REMARKS."

The average discharge for the number of years indicated is given under "AVERAGE DISCHARGE;" it is not given for stations having fewer than 5 complete years of record or for stations where changes in water development during the period of record cause the figure to have little significance.

The maximum discharge (or contents) and the maximum gage height, the minimum discharge if there is little or no regulation (or minimum contents), and the minimum gage height, if it is significant, are given under "EXTREMES." The minimum daily discharge is given if there is extensive regulation (also the minimum discharge and gage height if they are abnormally low). Under "EXTREMES" are given first, the extremes for the period of record, second, information available outside the period of record, and last, those for the current year. Unless otherwise qualified, the maximum discharge (or contents) is the instantaneous maximum corresponding to the crest stage obtained by use of a water-stage recorder (graphic or digital), a crest-stage gage, or a nonrecording gage read at the time of the crest. If the maximum gage height did not occur on the same day as the maximum discharge (or contents), it is given separately. Similarly, the minimum is the instantaneous minimum unless otherwise qualified. For some stations peak discharges are listed with EXTREMES FOR THE CURRENT YEAR; if they are, all independent peaks, including the maximum for the year, above the selected base with the time of occurrence and corresponding gage heights are published in tabular format. The base discharge, which is given in the table heading, is selected so that an average of about three peaks a year will be presented. Peak discharges are not published for any canals, ditches, drains, or for any stream for which the peaks are subject to substantial control by man. Time of day is expressed in 24-hour local standard time; for example, 12:30 a.m. is 0030, 1:30 p.m. is 1330. The minimums for these stations are published in a separate paragraph following the table of peaks.

The daily table for stream-gaging stations gives the mean discharge for each day and is followed by monthly and yearly summaries. In the monthly summary below the daily table, the line headed "TOTAL" gives the sum of the daily figures. The line headed "MEAN" gives the average flow in cubic feet per second (ft^3/s) during the month. The lines headed "MAX" and "MIN" give the maximum and minimum daily discharges, respectively, for the month. Discharge for the month also may be expressed in acre-feet (line headed "AC-FT"). In the yearly summary below the monthly summary, the figures shown are the appropriate daily discharges for the calendar and water years.

Footnotes to the table of daily discharge are introduced by the word "NOTE." Footnotes are used to indicate periods for which the discharge is computed or estimated by special methods because of no gage-height record, backwater from various sources, or other unusual conditions. Periods of no gage-height record are indicated if the period is continuous for a month or more or includes the maximum discharge for the year. Periods of backwater from an unusual source, of indefinite stage-discharge relation, or of any other unusual condition at the gage site are indicated only if they are a month or more in length and the accuracy of the records is affected. Days on which the stage-discharge relation is affected by ice are not indicated. The methods used in computing discharge for various unusual conditions have been explained in preceding paragraphs.

For most gaging stations on lakes and reservoirs the data presented comprise a description of the station and a monthly summary table of stage and contents. For some reservoirs a table showing daily contents or stage is given. A skeleton table of capacity at given stages is published for all reservoirs for which records are published on a daily basis, but is not published for reservoirs for which only monthly data are given.

Data collected at partial-record stations and at miscellaneous sites follow the information for continuous record sites. Data for partial-record discharge stations are presented in three tables. The first is a table of discharge measurements at low-flow partial-record stations, the second is a table of annual maximum stage and discharge at crest-stage stations, and the third is a table of discharge measurements at miscellaneous sites.

Accuracy of field data and computed results

The accuracy of streamflow data depends primarily on (1) the stability of the stage-discharge relation or, if the control is unstable, the frequency of discharge measurements, and (2) the accuracy of observations of stage, measurements of discharge, and interpretations of records.

The station description under "REMARKS" states the degree of accuracy of the records. "Excellent" means that about 95 percent of the daily discharges are within 5 percent; "good" means within 10 percent; and "fair" within 15 percent. "Poor" means that daily discharges have less than "fair" accuracy.

Figures of daily mean discharge in this report are shown to the nearest hundredth of a cubic foot per second (ft^3/s) for discharges of less than 1 ft^3/s; to tenths between 1.0 and 10 ft^3/s; to whole numbers between 10 and 1,000 ft^3/s; and to 3 significant figures above 1,000 ft^3/s. The number of significant figures used is based solely on the magnitude of the figure. The same rounding rules apply to discharge figures listed for partial-record stations and miscellaneous sites.

Discharge at many stations, as indicated by the monthly mean, may not reflect natural runoff due to the effects of diversion, consumption, regulation by storage, increase or decrease in evaporation due to artificial causes, or to other factors. However, because all the effects cannot be measured or evaluated, satisfactory adjustments generally cannot be made. For some stations, available figures of diversions or change in contents of reservoirs are included as supplemental data. Even at those stations where adjustments can be made, large errors in computed runoff may occur if adjustments or losses are large in comparison with the observed discharge.

Other Data Available

Information of a more detailed nature than that published for most of the gaging stations, such as observations of water temperatures, discharge measurements, gage-height records, and rating tables is on file in the district office. Also most gaging-station records are available in computer-usable form and many statistical analyses have been made.

Information on the availability of unpublished data or statistical analyses may be obtained from the district office.

Records of Discharge Collected by Agencies other than the Geological Survey

Records of discharge not published by the Geological Survey were collected at many sites in Colorado during the water year by the following agencies: City of Colorado Springs; Colorado Division of Water Resources; Forest Service, U.S. Department of Agriculture; City and County of Denver, Board of Water Commissioners; National Weather Service, Department of Commerce; and Water and Power Resources Service, U.S. Department of the Interior.

EXPLANATION OF WATER-QUALITY RECORDS

Collection and Examination of Data

Water samples for analyses usually are collected at or near streamflow-gaging stations. The quality-of-water records are given immediately following the discharge records at these stations.

The descriptive heading for water-quality records gives the period of record for all water-quality data, the period of daily record for parameters that are measured on a daily basis (such as, specific conductance, pH, dissolved oxygen, water temperature, sediment discharge), extremes for the period of daily record, extremes for current year, and general remarks.

For ground-water records, no descriptive statements are given; however, the well number, depth of well, date of sampling, or other pertinent data are given in the table containing the chemical analyses of the ground water.

Water Analysis

Most methods for collecting and analyzing water samples are described in "U.S. Geological Survey Techniques of Water-Resources Investigations," which are listed on page 35.

One sample can define adequately the water quality at a given time if the mixture of solutes throughout the stream cross section is homogeneous. However, the concentration of solutes at different locations in the cross section may vary widely with different rates of water discharge, depending on the source of material and the turbulence and mixing of the stream. Some streams must be sampled through several vertical sections to obtain a representative sample needed for an accurate mean concentration and for use in calculating load.

Chemical-quality data are considered to be the most representative values available for the stations listed. The values reported represent water-quality conditions at the time of sampling, as much as possible, consistent wth available sampling techniques and methods of analysis. In the rare case where an apparent inconsistency exists between a reported pH value and the relative abundance of carbon dioxide species (carbonate and bicarbonate), the inconsistency is the result of a slight uptake of carbon dioxide from the air by the sample between measurement of pH in the field determination of carbonate and bicarbonate in the laboratory.

Prior to the 1968 water year, data for chemical constituents and concentrations of suspended sediment were reported in parts per million (ppm) and water temperatures were reported in degrees Fahrenheit (°F). In October 1967, the Geological Survey began reporting data for chemical constituents and concentrations of suspended sediment in milligrams per liter (mg/L) and water temperatures in degrees Celsius (°C). In waters with a density of 1.000 grams per milliliter (g/mL), parts per million and milligrams per liter can be considered equal. In waters with a density greater than 1.000 g/mL, values in parts per million should be multiplied by the density to convert to milligrams per liter. Temperature reported in degrees Celsius may be converted to degrees Fahrenheit by using table 3.

For chemical-quality stations equipped with digital monitors, the records consist of daily maximum, minimum, and mean values for each constituent measured and are based upon hourly punches beginning at 0100 hours and ending at 2400 hours for the day of record. More detailed records (hourly values) may be obtained from the district office.

Water Temperatures

Water temperatures are measured at most of the water-quality stations. In addition, water temperatures are taken at the time of discharge measurements for surface-water stations. For stations where water temperatures are taken manually the water temperatures are taken at about the same time each day. Large streams have a small diel temperature change; shallow streams may have a daily range of several degrees and may follow closely the changes in air temperature. Some streams may be affected by waste-heat discharges. At stations where recording instruments are used, either mean temperatures or maximum and minimum temperatures for each day are published.

Table 3.--Degrees Celsius (°C) to degrees Fahrenheit (°F)*
(Temperature reported to nearest 0.5°C)

°C	°F	°C	°F	°C	°F	°C	°F	°C	°F
0.0	32	10.0	50	20.0	68	30.0	86	40.0	104
.5	33	10.5	51	20.5	69	30.5	87	40.5	105
1.0	34	11.0	52	21.0	70	31.0	88	41.0	106
1.5	35	11.5	53	21.5	71	31.5	89	41.5	107
2.0	36	12.0	54	22.0	72	32.0	90	42.0	108
2.5	36	12.5	54	22.5	72	32.5	90	42.5	108
3.0	37	13.0	55	23.0	73	33.0	91	43.0	109
3.5	38	13.5	56	23.5	74	33.5	92	43.5	110
4.0	39	14.0	57	24.0	75	34.0	93	44.0	111
4.5	40	14.5	58	24.5	76	34.5	94	44.5	112
5.0	41	15.0	59	25.0	77	35.0	95	45.0	113
5.5	42	15.5	60	25.5	78	35.5	96	45.5	114
6.0	43	16.0	61	26.0	79	36.0	97	46.0	115
6.5	44	16.5	62	26.5	80	36.5	98	46.5	116
7.0	45	17.0	63	27.0	81	37.0	99	47.0	117
7.5	45	17.5	63	27.5	81	37.5	99	47.5	117
8.0	46	18.0	64	28.0	82	38.0	100	48.0	118
8.5	47	18.5	65	28.5	83	38.5	101	48.5	119
9.0	48	19.0	66	29.0	84	39.0	102	49.0	120
9.5	49	19.5	67	29.5	85	39.5	103	49.5	121

*°C=5/9(°F-32°) or °F=9/5(°C)+32°.

In October 1968, the Geological Survey began reporting many of the chemical constituents as well as the minor elements in micrograms per liter instead of milligrams per liter. See "Definition of Terms," and table 5 for converting English units to SI units.

The biological information includes qualitative and quantitative analyses of plankton, periphyton, Chlorophyll *a* and *b*, biomass and bottom organisms. Microbiological information includes quantitative identification of selected bacteriological indicator organisms.

Solutes

Most methods for collecting and analyzing water samples to determine the kinds and concentrations of solutes are described by Brown, Skougstad, and Fishman (1970). Analysis of pesticides and organic substances in water are described by Goerlitz and Lamar (1967), Lamar, Goerlitz, and Law (1965), and Goerlitz and Brown (1972). The collection and analysis of aquatic, biological, and microbiological samples are described by Slack and others (1973).

Sediment

Suspended-sediment concentrations are determined from samples collected by using depth-integrating samplers. Samples usually are obtained at several verticals in the cross section, or a single sample may be obtained at a fixed point and a coefficient applied to determine the mean concentration in the cross sections.

During periods of rapidly changing flow or rapidly changing concentration, samples may have been collected more frequently (twice daily or, in some instances, hourly). The published sediment discharges for days of rapidly changing flow or concentration were computed by the subdivided day method (time-discharge weighted average). Therefore, for those days when the published sediment discharge value differs from the value computed as the product of discharge times mean concentration times 0.0027, the reader can assume that the sediment discharge for that day was computed by the subdivided day method. For periods when no samples were collected, daily loads of suspended sediment were estimated on the basis of water discharge, sediment concentrations observed immediately before and after the periods, and suspended-sediment loads for other periods of similar discharge. A blank in the daily mean concentration column of the suspended-sediment discharge table indicates the value in the sediment discharge column was estimated. A zero value in the sediment-discharge column when there are nonzero values in the mean discharge and mean concentration columns indicates the load is less than 0.005 ton per day.

At other stations, suspended-sediment samples were collected periodically at many verticals in the stream cross section. Although data collected periodically may represent conditions only at the time of observations, such data are useful in establishing seasonal relations between quality and streamflow in predicting long-term sediment-discharge characteristics of the streams.

In addition to the records of the quantities of suspended sediment, records of the periodic measurements of the particle-size distribution of the suspended sediment and bed material are included.

WATER-SUPPLY PAPERS

The annual series of Water-Supply Papers that give information on quality of surface waters in Colorado are shown in the following table:

Table 4.--Water-Supply Paper numbers and parts, water years 1941-71

Year	Part 6	Part 7	Part 8	Part 9	Irrigation (1951-65)[a]
1941	942	942	942	942	----
1942	950	950	950	950	----
1943	970	970	970	970	----
1944	1022	1022	1022	1022	----
1945	1030	1030	1030	1030	----
1946	1050	1050	1050	1050	----
1947	1102	1102	1102	1102	----
1948	1132	1133	1133	1133	----
1949	1162	1163	1163	1163	----
1950	1187	1188	1188	1189	----
1951	1198	1199	1199	1200	1264
1952	1251	1252	1252	1253	1362
1953	1291	1292	1292	1293	1380
1954	1351	1352	1352	1353	1430
1955	1401	1402	1402	1403	1465
1956	1451	1452	1452	1453	1485
1957	1521	1522	1522	1523	1524
1958	1572	1573	1573	1574	1575
1959	1643	1644	1644	1645	1699
1960	1743	1744	1744	1745	1746
1961	1883	1884	1884	1885	1886
1962	1943	1944	1944	1945	1946
1963	1949	1950	1950	1951	1952
1964	1956	1957	1957	1958	1960
1965	1963	1964	1964	1965	1967
1966	1993	1994	1994	1995	----
1967	2013	2014	2014	2015	----
1968	2095	2096	2097	2098	----
1969	2145	2146	2147	2148	----
1970	2155	2156	2157	2158	----
1971	2165	[b]2166	[b]2167	[b]2168	----

[a] Annual series, "Quality of Surface Waters for Irrigation, Western States."
[b] In preparation.

Information about reports and other data on quality of water in Colorado may be obtained from the district office at the address given on the back of the title page of this report.

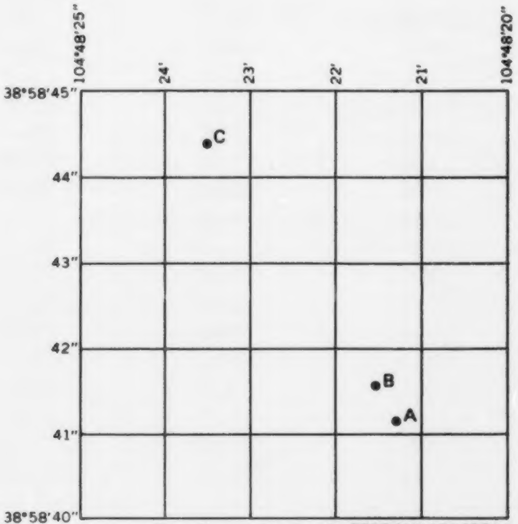
EXPLANATION OF GROUND-WATER-LEVEL RECORDS

Collection of Data

Only ground-water level data from a basic national network of observation wells are published herein. These water-level measurements are intended to provide a record of water-level changes in important aquifers.

The locations of wells are referenced by two systems. One system is based on latitude and longitude, and the second is based on the U.S. Bureau of Land Management system of land subdivision. The latitude and longitude grid system facilitates machine processing of data and plotting of data points.

The latitude and longitude grid system is used to provide the geographic location of each well. The number consists of 15 digits. The first six digits denote the degrees, minutes, and seconds of latitude; N designates north; the next seven digits denote degrees, minutes, and seconds of longitude; and the last digit is a sequential number for wells within a 1-second grid, as shown below in figure 6.



Coordinates for site	A	385841N10448211
	B	385841N10448212
	C	385844N10448230

Figure 6.--System for numbering wells and miscellaneous sites (latitude and longitude).

The local well number locates a well within a 10-acre (4.0-ha) tract using the U.S. Bureau of Land Management system of land subdivision. The components of the local well number proceed from the largest to the smallest land subdivisions. This is in contrast to the legal description, which proceeds from the smallest to the largest land subdivision. The largest subdivision is the survey. Colorado is governed by three surveys: The Sixth Principal Meridian Survey (S), the New Mexico Survey (N), and the Ute Survey (U). Costilla County was not included in any of the above official surveys. This report follows the convention of the Costilla County Assessor in which the northern part of the county is governed by the Sixth Principal Meridian Survey and the southern part of the county is governed by a local system called the Costilla Survey (C). The first letter of the well location designates the survey.

A survey is subdivided into four quadrants formed by the intersection of the baseline and the principal meridian. The second letter of the well location designates the quadrant: A indicates the northeast quadrant, B the northwest, C the southwest, and D the southeast. A quadrant is subdivided in the north-south direction every 6 mi (10 km) by townships and is subdivided in the east-west direction every 6 mi (10 km) by ranges. The first number of the well location designates the township and the second number designates the range.

The 36-mi^2 (93-km^2) area described by the township and range designation is subdivided into 1-mi^2 (2.59-km^2) areas called sections. The sections are numbered sequentially. The third number of the well location designates the section. The section, which contains 640 acres (259 ha), is subdivided into quarter sections. The 160-acre (64.8-ha) area is designated by the first letter following the section: A indicates the northeast quarter, B the northwest, C the southwest, and D the southeast. The quarter section is subdivided into quarter-quarter sections. The 40-acre (16.2-ha) area is designated in the same manner by the second letter following the section. The quarter-quarter section is subdivided into quarter-quarter-quarter sections. The 10-acre (4.0-ha) area is designated in the same manner by the third letter following the section. If more than one well is located within the 10-acre (4.0-ha) tract, the wells are numbered sequentially in the order in which they were originally inventoried. If this number is necessary, it will follow the three-letter designation.

The local number is provided for continuity with older reports.

Measurements are made in many types of wells under varying conditions, but the methods of measurement are standardized to the extent possible. The equipment and measuring techniques used at each observation well insure that measurements at each well are of consistent accuracy and reliability.

Water-level measurements in this report are given in feet with reference to either mean sea level (msl) or land-surface datum (lsd). Mean sea level is the datum plane on which the national network of precise levels is based; land-surface datum is a datum plane that is approximately at land surface at each well. If known, the altitude of the land-surface datum above mean sea level is given in the well description. The height of the measuring point (MP) above or below land-surface datum is given in each well description. Water levels in wells equipped with recording gages are reported for every fifth day and the end of each month (eom).

Water levels are reported to as many significant figures as can be justified by the local conditions. For example, in a measurement of a depth to water of several hundred feet, the error of determining the absolute value of the total depth to water may be a few tenths of a foot, whereas the error in determining the net change of water level between successive measurements may be only a hundredth or a few hundredths of a foot. For lesser depths to water, the accuracy is greater. Accordingly, most measurements are reported to a hundredth of a foot, but some are given only to a tenth of a foot or a larger unit.

Publications

Publication of ground-water level data for the United States in water-supply papers was begun by the Geological Survey in 1935. From 1935 through 1939, a single water-supply paper covering the entire nation was issued each year (Water-Supply Papers 777, 817, 840, 845, and 886). From 1940 through 1974, separate water-supply papers were issued for six sections of the United States. Water-level data for Colorado are included in the water-supply papers listed below, each report containing one or more calendar years (January through December) of data. Data in this report are for the 12-month water year ending September 30.

Calendar year	WSP no.	Calendar year	WSP no.	Calendar year	WSP no.	Calendar year	WSP no.
1940	910	1945	1027	1950	1169	1955	1408
1941	940	1946	1075	1951	1195	1956-60	1760
1942	948	1947	1100	1952	1225	1961-65	1845
1943	990	1948	1130	1953	1269	1966-70	1980
1944	1020	1949	1160	1954	1325		

Information about reports and other data on ground water in Colorado may be obtained from the district office at the address given on the back of the title page of this report.

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Report AA, 1959, Federal Inter-Agency sedimentation instruments and reports: St. Anthony Falls Hydraulic Laboratory, Minneapolis, Minn., 41 p.

Report 13, 1961, The single-stage sampler for suspended sediment: Washington, D. C., U.S. Government Printing Office, 105 p.

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PUBLICATIONS ON TECHNIQUES OF WATER-RESOURCES INVESTIGATIONS

Thirty-four manuals by the U.S. Geological Survey have been published to date in the series on techniques describing procedures for planning and executing specialized work in water-resources investigations. The material is grouped under major subject headings called books and is further divided into sections and chapters. For example, Section A of Book 3 (Applications of Hydraulics) is on surface water. The chapter, the unit of publication, is limited to a narrow field of subject matter. This format permits flexibility in revision and publication as the need arises. The reports listed below are for sale by the U.S. Geological Survey, Branch of Distribution, 1200 South Eads Street, Arlington, VA 22202 (authorized agent of the Superintendent of Documents, Government Printing Office. Prices are effective October 1978 but are subject to change.

NOTE: When ordering any of these publications, please give the title, book number, chapter number, and "U.S. Geological Survey Techniques of Water-Resources Investigations".

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3-A12. *Fluorometric procedures for dye tracing,* by J. F. Wilson Jr.: USGS--TWRI Book 3, Chapter A12. 1968. 31 pages. $0.35. Not currently available.

3-B1. *Aquifer-test design, observation, and data analysis,* by R. W. Stallman: USGS--TWRI Book 3, Chapter B1. 1971. 26 pages. $0.70.

3-B2. *Introduction to ground-water hydraulics, a programed text for self-instruction,* by G. D. Bennett: USGS--TWRI Book 3, Chapter B2 1976. 172 pages. $2.50.

3-C1. *Fluvial sediment concepts,* by H. P. Guy: USGS--TWRI Book 3, Chapter C1. 1970. 55 pages. $2.50.

3-C2. *Field methods for measurement of fluvial sediment,* by H. P. Guy and V. W. Norman: USGS--TWRI Book 3, Chapter C2, 1970. 59 pages. $2.50.

3-C3. *Computation of fluvial-sediment discharge*, by George Porterfield: USGS--TWRI Book 3, Chapter C3. 1972. 66 pages. $2.10.

4-A1. *Some statistical tools in hydrology,* by H. C. Riggs: USGS--TWRI Book 4 Chapter A1. 1968. 39 pages. $1.60.

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5-A1. *Methods for collection and analysis of water samples for dissolved minerals and gases,* by Eugene Brown, M. W. Skougstad, and M. J. Fishman: USGS--TWRI Book 5, Chapter A1. 1970. 160 pages. $2.40.

5-A2. *Determination of minor elments in water by emission spectroscopy,* by P. R. Barnett and E. C. Mallory, Jr.: USGS--TWRI Book 5, Chapter A2. 1971. 31 pages. $0.80.

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5-A5.* *Methods for determination of radioactive substances in water and fluvial sediments,* by L.L. Thatcher, V.J. Janzer, and K.W. Edwards: USGS--TWRI Book 5, Chapter A5. 1977. 95 pages. $16.00.

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*These publications are available ONLY from Superintendent of Documents, Government Printing Office, Washington, D.C. 20402. They are in looseleaf format and are subscription items. Additional supplements will be issued to subscribers at no extra cost. Checks should be made payable to Superintendent of Documents. Requester should emphasize to Superintendent of Documents that this is a subscription item.

09165000 DOLORES RIVER BELOW RICO, CO

LOCATION.--Lat 37°38'20", long 108°03'35", Dolores County, Hydrologic Unit 14030002, on left bank at upstream side of Montelores bridge northwest of State Highway 145 (relocated), at Dolores-Montezuma County line, 0.5 mi (0.8 km) upstream from Ryman Creek, and 4.0 mi (6.4 km) southwest of Rico.

DRAINAGE AREA.--105 mi^2 (272 km^2).

PERIOD OF RECORD.--October 1951 to current year.

GAGE.--Water-stage recorder. Datum of gage is 8,422.23 ft (2,567.096 m), National Geodetic Vertical Datum of 1929.

REMARKS.--Records good except those for winter period and those for period of no gage-height record, which are poor. No diversion above station. Several observations of specific conductance and water temperature were obtained and are published elsewhere in this report.

AVERAGE DISCHARGE.--30 years, 131 ft^3/s (3.710 m^3/s), 94,910 acre-ft/yr (117 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,120 ft^3/s (60.0 m^3/s) June 10, 1952, gage height, 6.15 ft (1.875 m); minimum daily, 7.0 ft^3/s (0.20 m^3/s) Nov. 16, 17, 1956, Feb. 6, 7, 1961.

EXTREMES OUTSIDE PERIOD OF RECORD.--Greatest flood since at least 1885 occurred Oct 5, 1911.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 878 ft^3/s (24.9 m^3/s) at 2130 June 7, gage height, 4.37 ft (1.332 m), only peak above base of 800 ft^3/s (23 m^3/s); minimum daily, 12 ft^3/s (0.34 m^3/s) Feb. 12, 13.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	33	29	22	19	14	16	16	396	490	106	80	62
2	33	29	22	19	14	16	19	376	490	106	76	48
3	32	28	22	19	14	17	20	485	532	87	70	43
4	32	28	23	20	13	17	19	380	435	77	61	42
5	32	29	23	20	14	16	17	312	440	72	55	47
6	30	29	24	20	14	17	20	282	495	67	50	63
7	29	29	24	19	14	17	24	261	622	63	47	77
8	29	29	24	18	14	16	24	232	654	70	46	63
9	29	27	22	17	14	16	28	202	634	72	47	65
10	28	27	22	18	14	16	38	200	568	106	52	75
11	28	27	20	17	13	16	50	200	505	88	81	75
12	29	29	20	18	12	16	55	172	430	94	84	111
13	32	30	20	18	12	16	54	159	352	335	68	128
14	34	29	20	17	14	16	57	165	288	235	62	103
15	39	22	20	17	15	17	61	185	232	281	57	91
16	36	24	20	17	15	15	60	176	202	276	72	86
17	35	24	20	17	16	16	75	156	188	215	77	75
18	34	24	20	17	16	15	90	152	178	195	60	70
19	33	22	20	16	17	15	106	165	163	161	56	68
20	33	22	20	16	18	15	98	183	156	130	53	61
21	33	22	20	16	18	16	97	172	148	111	49	56
22	33	22	19	16	17	16	123	163	138	102	62	53
23	30	22	20	16	17	17	150	161	124	103	49	55
24	27	24	20	16	18	18	192	174	114	126	49	63
25	30	24	19	15	18	17	230	188	108	114	47	53
26	30	22	19	14	17	20	249	208	108	152	43	49
27	30	22	19	14	16	19	246	258	109	126	43	46
28	28	22	19	15	16	18	264	408	108	103	45	44
29	27	24	19	15	---	18	332	440	98	93	46	43
30	29	24	19	14	---	17	395	416	93	83	44	42
31	29	---	19	14	---	17	---	490	---	83	60	---
TOTAL	966	765	640	524	424	514	3209	7917	9202	4032	1791	1957
MEAN	31.2	25.5	20.6	16.9	15.1	16.6	107	255	307	130	57.8	65.2
MAX	39	30	24	20	18	20	395	490	654	335	84	128
MIN	27	22	19	14	12	15	16	152	93	63	43	42
AC-FT	1920	1520	1270	1040	841	1020	6370	15700	18250	8000	3550	3880

CAL YR 1980 TOTAL 66877 MEAN 183 MAX 1550 MIN 11 AC-FT 132700
WTR YR 1981 TOTAL 31941 MEAN 87.5 MAX 654 MIN 12 AC-FT 63350

NOTE.--NO GAGE-HEIGHT RECORD DEC. 22 TO MAR. 9.

09166500 DOLORES RIVER AT DOLORES, CO

LOCATION.--Lat 37°28'16", long 108°30'15", in NE¼NE¼ sec.16, T.37 N., R.15 W., Montezuma County, Hydrologic Unit 14030002, on left bank 70 ft (21 m) downstream from bridge on State Highway 184 in Dolores and 0.4 mi (0.6 km) upstream from Lost Canyon Creek.

DRAINAGE AREA.--504 mi^2 (1,305 km^2).

PERIOD OF RECORD.--June 1895 to October 1903, August 1910 to November 1912, October 1921 to current year. Monthly discharge only for some periods, published in WSP 1313.

REVISED RECORDS.--WSP 859: 1937. WRD Colo. 1972: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 6,918.74 ft (2,108.832 m), National Geodetic Vertical Datum of 1929. See WSP 1713 or 1733 for history of changes prior to Oct. 7, 1952.

REMARKS.--Records good except those for winter period, which are poor. Diversions for irrigation of about 2,000 acres (8.1 km^2) above station. Flow partly regulated by Ground Hog Reservoir, capacity, 21,710 acre-ft (26.8 hm^3/yr). Several observations of specific conductance and water temperature were obtained and are published elsewhere in this report.

AVERAGE DISCHARGE.--70 years (water years 1896-1903, 1911-12, 1922-81), 425 ft^3/s (12.04 m^3/s), 307,900 acre-ft/yr (380 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 10,000 ft^3/s (283 m^3/s) Oct. 5, 1911, gage height, 10.2 ft (3.11 m), site and datum then in use, from rating curve extended above 2,800 ft^3/s (79 m^3/s); minimum daily, 8.0 ft^3/s (0.23 m^3/s) Aug. 16, 1896.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1885, that of Oct. 5, 1911.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,900 ft^3/s (53.8 m^3/s) at 0830 May 3, gage height, 6.88 ft (2.097 m), only peak above base of 1,800 ft^3/s (51 m^3/s); minimum daily, 34 ft^3/s (0.96 m^3/s) Mar. 18.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	72	64	70	52	55	50	54	1210	966	288	272	142
2	66	64	68	54	50	50	70	1090	950	396	248	121
3	63	63	65	52	50	48	79	1640	1010	248	202	92
4	59	63	65	50	55	44	66	1340	910	205	154	83
5	55	64	64	52	55	39	48	1010	846	208	127	95
6	54	64	55	48	50	55	64	830	886	216	105	133
7	54	66	55	55	50	40	88	748	1100	236	92	175
8	52	66	52	55	50	36	100	664	1170	233	88	154
9	48	64	60	55	50	39	100	540	1110	264	88	169
10	48	63	60	55	50	44	130	525	998	360	115	154
11	50	63	60	55	50	48	175	545	894	324	127	172
12	50	64	65	60	50	36	193	470	778	388	233	181
13	59	86	65	60	50	36	184	410	658	741	199	320
14	68	86	65	55	50	47	190	410	560	580	178	276
15	112	59	60	55	48	44	212	470	450	565	151	219
16	124	39	60	55	48	42	216	500	374	640	148	208
17	100	50	60	55	48	45	233	475	352	595	178	184
18	92	65	60	55	46	34	324	410	329	605	154	160
19	88	64	60	55	46	37	415	505	308	490	136	166
20	88	70	60	55	44	45	392	515	288	370	133	151
21	88	70	60	60	44	37	329	495	284	304	112	130
22	88	64	60	55	55	36	420	450	272	256	124	112
23	83	72	60	55	55	45	505	425	252	233	133	102
24	63	75	57	55	57	55	610	430	230	264	108	148
25	63	70	59	55	55	52	742	465	208	252	105	136
26	77	72	60	55	47	59	830	485	244	268	92	108
27	79	70	61	55	50	68	806	530	276	338	88	92
28	72	70	55	60	48	59	778	798	276	240	92	81
29	54	70	55	60	---	45	950	926	264	236	102	72
30	63	70	54	59	---	61	1090	806	240	244	95	66
31	66	---	52	55	---	42	---	926	---	230	108	---
TOTAL	2198	1990	1862	1712	1406	1418	10393	21043	17483	10817	4287	4402
MEAN	70.9	66.3	60.1	55.2	50.2	45.7	346	679	583	349	138	147
MAX	124	86	70	60	57	68	1090	1640	1170	741	272	320
MIN	48	39	52	48	44	34	48	410	208	205	88	66
AC-FT	4360	3950	3690	3400	2790	2810	20610	41740	34680	21460	8500	8730

CAL YR 1980 TOTAL 227924 MEAN 623 MAX 4190 MIN 39 AC-FT 452100
WTR YR 1981 TOTAL 79011 MEAN 216 MAX 1640 MIN 34 AC-FT 156700

09168100 DISAPPOINTMENT CREEK NEAR DOVE CREEK, CO

LOCATION.--Lat 37°52'36", long 108°34'57", Dolores County, Hydrologic Unit 14030002, 0.2 mi (0.3 km) downstream from ford, 6.5 mi (10.5 km) southeast of Cedar, and 19 mi (31 km) northeast of town of Dove Creek.

DRAINAGE AREA.--147 mi² (381 km²).

PERIOD OF RECORD.--August 1957 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 6,420 ft (1,957 m), from topographic map.

REMARKS.--Records good except those for period of no gage-height record, which are poor. Several small reservoirs and ponds above station. Small diversions for irrigation above station. Several observations of specific conductance and water temperature were obtained and are published elsewhere in this report.

AVERAGE DISCHARGE.--24 years, 17.2 ft³/s (0.487 m³/s), 12,460 acre-ft/yr (15.4 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,270 ft³/s (206 m³/s) July 24, 1977, gage height, 13.38 ft (4.078 m), from rating curve extended above 250 ft³/s (7.1 m³/s), on basis of slope-area measurements at gage heights 7.18, 10.26, and 13.38 ft (2.188, 3.127, and 4.078 m); maximum gage height, 13.54 ft (4.127 m) July 13, 1965 (slope-area measurement); no flow at times most years.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 560 ft³/s (16 m³/s) and maximum (*):

Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)
July 15	1700	602	17.0	5.60	1.707	July 18	0530	755	21.4	6.25	1.905
July 16	1900	662	18.7	5.90	1.798	Aug. 12	2030	1,170	33.1	7.74	2.359
July 17	1430	*1,410	39.9	8.37	2.551						

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.55	1.9	2.4	2.2	1.4	3.1	3.6	35	16	4.8	3.4	.55
2	.55	1.9	2.2	2.2	1.4	3.1	4.3	33	13	3.4	2.6	.18
3	.55	1.9	2.4	2.4	2.0	2.9	6.3	58	14	9.5	1.8	.10
4	.55	1.9	2.2	2.4	2.0	2.6	4.9	50	15	5.0	1.6	.07
5	.45	1.9	2.6	2.2	2.0	1.4	3.6	37	13	2.8	.24	3.1
6	.35	1.9	4.0	2.0	2.2	2.6	4.3	32	12	1.2	.04	2.2
7	.15	1.9	3.4	1.8	2.2	2.1	6.0	26	11	.35	.04	.10
8	.25	2.1	2.8	1.8	2.4	1.9	6.9	22	10	.32	.04	11
9	.25	2.1	2.4	1.8	2.6	1.9	5.8	20	8.8	5.6	.72	3.6
10	.15	2.1	2.2	1.8	2.6	2.4	9.2	20	6.9	30	.10	14
11	.15	2.1	2.2	2.0	2.4	2.9	10	18	6.0	16	4.2	34
12	.15	2.1	2.4	2.2	2.4	2.6	10	16	4.3	123	71	5.5
13	.35	3.1	2.4	2.0	2.4	2.4	9.2	15	2.6	59	34	14
14	1.0	4.3	2.0	1.8	2.6	2.6	9.5	13	2.4	17	11	8.1
15	4.3	3.1	2.2	1.8	2.8	3.1	14	13	1.9	88	8.0	30
16	4.9	1.9	2.2	2.0	3.0	2.9	13	15	1.4	119	4.4	14
17	3.1	2.2	2.2	2.2	3.4	3.3	13	14	1.2	247	14	7.0
18	3.1	2.2	2.4	1.8	3.8	2.1	15	12	.80	139	10	4.0
19	2.9	2.2	2.4	1.8	4.3	1.9	22	12	.45	23	8.0	3.6
20	2.6	2.2	2.2	2.0	6.6	2.4	18	12	.35	13	9.0	3.4
21	2.4	2.4	2.4	1.8	2.9	2.4	14	12	.24	10	12	3.4
22	2.1	3.0	2.4	1.6	2.6	1.9	15	12	.18	5.0	13	5.0
23	1.9	3.8	2.2	1.6	2.4	2.1	18	11	.14	9.0	15	44
24	1.4	3.8	2.2	2.0	2.6	2.9	20	10	.04	7.0	19	12
25	1.4	3.2	2.2	1.8	2.6	2.6	25	11	.97	6.0	10	5.0
26	1.6	2.8	2.2	1.6	3.3	2.6	28	12	37	8.0	8.0	9.0
27	2.9	2.6	2.4	2.6	1.9	3.8	27	13	1.2	4.0	6.0	5.0
28	2.6	2.2	2.4	2.2	1.9	3.8	29	16	23	2.6	4.4	4.6
29	1.9	2.6	2.4	2.0	---	2.9	33	18	5.5	2.0	2.8	4.2
30	1.9	2.4	2.4	1.8	---	4.3	37	17	3.6	1.2	1.0	4.0
31	1.9	---	2.2	1.8	---	2.9	---	17	---	.40	.60	---
TOTAL	48.35	73.8	74.6	61.0	74.7	82.4	434.6	622	212.97	962.17	275.98	254.70
MEAN	1.56	2.46	2.41	1.97	2.67	2.66	14.5	20.1	7.10	31.0	8.90	8.49
MAX	4.9	4.3	4.0	2.6	6.6	4.3	37	58	37	247	71	44
MIN	.15	1.9	2.0	1.6	1.4	1.4	3.6	10	.04	.32	.04	.07
AC-FT	96	146	148	121	148	163	862	1230	422	1910	547	505

CAL YR 1980 TOTAL 11060.81 MEAN 30.2 MAX 250 MIN .08 AC-FT 21940
WTR YR 1981 TOTAL 3177.27 MEAN 8.70 MAX 247 MIN .04 AC-FT 6300

NOTE.--NO GAGE-HEIGHT RECORD NOV. 17 TO FEB. 17.

09168800 BIG GYPSUM CREEK NEAR SLICK ROCK, CO

LOCATION.--Lat 38°06'50", long 108°51'23", San Miguel County, Hydrologic Unit 14030002, on right bank 460 ft (140 m) upstream from road crossing, 1.0 mi (1.6 km) upstream from mouth and confluence with Dolores River, 17 mi (27 km) southeast of Naturita, and 6 mi (9.5 km) northeast of Slick Rock.

DRAINAGE AREA.--43.9 mi^2 (113.7 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1980 to September 1981 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 5,370 ft (1,640 m), from topographic map.

REMARKS.--Records good.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 440 ft^3/s (12.5 m^3/s) July 13, 1981, gage height, 3.34 ft (1.018 m); maximum gage height, 10.69 ft (3.258 m), from highwater mark, date and discharge unknown; no flow most of each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 440 ft^3/s (12.5 m^3/s) at 0100 July 13, gage height, 3.34 ft (1.018 m); no flow most of year.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
3	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
7	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
9	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
11	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
12	.00	.00	.00	.00	.00	.00	.00	.00	.00	6.7	4.5	.00
13	.00	.00	.00	.00	.00	.00	.00	.00	.00	25	.18	4.1
14	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.71	.53
15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
16	.00	.00	.00	.00	.00	.00	.00	.00	.00	2.0	13	.00
17	.00	.00	.00	.00	.00	.00	.00	.00	.00	3.6	.00	.00
18	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
19	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
20	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
21	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
22	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
23	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.6	.00	.00
24	.00	.00	.00	.00	.00	.00	.00	.00	.00	.46	.00	.00
25	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
26	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
27	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
28	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
29	.00	.00	.00	.00	---	.00	.00	.00	.00	.00	.00	.00
30	.00	.00	.00	.00	---	.00	.00	.00	.00	.00	.00	.00
31	.00	---	.00	.00	---	.00	---	.00	---	.00	.00	---
TOTAL	.00	.00	.00	.00	.00	.00	.00	.00	.00	39.36	18.39	4.63
MEAN	.000	.000	.000	.000	.000	.000	.000	.000	.000	1.27	.59	.15
MAX	.00	.00	.00	.00	.00	.00	.00	.00	.00	25	13	4.1
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT	.00	.00	.00	.00	.00	.00	.00	.00	.00	78	36	9.2

WTR YR 1981 TOTAL 62.38 MEAN .17 MAX 25 MIN .00 AC-FT 124

09168800 BIG GYPSUM CREEK NEAR SLICK ROCK, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1980 to September 1981 (discontinued).

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: January to September 1981.
WATER TEMPERATURES: January to September 1981.

INSTRUMENTATION.--Water-quality monitor since January 1981. Pumping sampler since October 1980.

REMARKS.--No flow most of time. Daily maximum and minimum specific-conductance data available in district office.

EXTREMES FOR JANUARY TO SEPTEMBER 1981.--
SPECIFIC CONDUCTANCE: Maximum, 9,000 micromhos Sept. 13; minimum, 200 micromhos Aug. 12.
WATER TEMPERATURES: Maximum, 20.0°C July 23, Aug. 12; minimum, 8.0°C Sept. 13.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	HARD-NESS (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)
JUL									
16...	1130	2.5	380	432	7.3	16.0	7.9	130	43

DATE	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)
JUL									
16...	4.3	4.5	.2	7.2	67	440	11	.4	8.9

DATE	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)
JUL								
16...	572	.78	3.9	2.7	.050	.020	130	10

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)
JUL				
12...	2100	19	33400	1710

09168800 BIG GYPSUM CREEK NEAR SLICK ROCK, CO--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1										---	---	---
2										---	---	---
3										---	---	---
4										---	---	---
5										---	---	---
6										---	---	---
7										---	---	---
8										---	---	---
9										---	---	---
10										---	---	---
11										---	---	---
12										5400	3180	---
13										6620	3100	6600
14										---	2750	4400
15										---	---	---
16										3350	4850	---
17										2480	---	---
18										---	---	---
19										---	---	---
20										---	---	---
21										---	---	---
22										---	---	---
23										4500	---	---
24										1700	---	---
25										---	---	---
26										---	---	---
27										---	---	---
28										---	---	---
29										---	---	---
30										---	---	---
31										---	---	---

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1							---	---	---	---	---	---
2							---	---	---	---	---	---
3							---	---	---	---	---	---
4							---	---	---	---	---	---
5							---	---	---	---	---	---
6							---	---	---	---	---	---
7							---	---	---	---	---	---
8							---	---	---	---	---	---
9							---	---	---	---	---	---
10							---	---	---	---	---	---
11							---	---	---	---	---	---
12							19.5	18.5	20.0	16.5	---	---
13							18.5	17.0	15.0	15.0	16.5	8.0
14							---	---	15.0	14.0	14.5	13.5
15							---	---	---	---	---	---
16							18.5	17.0	17.0	15.5	---	---
17							18.5	16.0	---	---	---	---
18							.0	---	---	---	---	---
19							.0	---	---	---	---	---
20							.0	---	---	---	---	---
21							.0	---	---	---	---	---
22							.0	---	---	---	---	---
23							20.0	18.0	---	---	---	---
24							16.5	16.5	---	---	---	---
25							---	---	---	---	---	---
26							---	---	---	---	---	---
27							---	---	---	---	---	---
28							---	---	---	---	---	---
29							---	---	---	---	---	---
30							---	---	---	---	---	---
31							---	---	---	---	---	---

09169500 DOLORES RIVER AT BEDROCK, CO

LOCATION.--Lat 38°18'37", long 108°53'05", in NW¼SW¼ sec.20, T.47 N., R.18 W., Montrose County, Hydrologic Unit 14030002, on right bank at upstream side of bridge, 0.4 mi (0.6 km) southeast of Bedrock, and 3.1 mi (5.0 km) upstream from East Paradox Creek.

DRAINAGE AREA.--2,024 mi^2 (5,242 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1917 to September 1922 (monthly discharge only for some periods, published in WSP 1313), August 1971 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 4,940 ft (1,506 m), from topographic map. Prior to Aug. 1, 1971, nonrecording gage at different datum.

REMARKS.--Records good. Diversions above station for irrigation of about 5,000 acres (20 km^2) above station and about 33,000 acres (130 km^2) in the San Juan River basin.

AVERAGE DISCHARGE.--15 years (water years 1918-22, 1972-81), 466 ft^3/s (13.20 m^3/s), 337,600 acre-ft/yr (416 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,280 ft^3/s (263 m^3/s) Apr. 30, 1973, gage height, 12.09 ft (3.685 m), from floodmarks, from rating curve extended above 8,700 ft^3/s (250 m^3/s); no flow Sept. 13, 1974, Aug. 15 to 18, 1978.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Sept. 6, 1970, reached a stage of 7.15 ft (2.179 m), present datum, from floodmarks (discharge not determined).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,290 ft^3/s (36.5 m^3/s) at 1030 May 4, gage height, 5.50 ft (1.676 m); minimum daily, 0.40 ft^3/s (0.011 m^3/s) Aug. 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.7	13	13	61	30	27	43	612	428	17	12	99
2	5.7	13	13	67	24	28	31	696	519	12	10	19
3	5.4	13	12	43	28	29	26	664	488	51	5.0	13
4	5.7	12	13	32	36	26	24	990	477	19	4.2	11
5	5.4	12	13	37	36	23	21	990	540	8.9	2.5	11
6	5.7	12	14	20	40	22	21	692	404	5.7	1.4	105
7	5.4	12	14	28	38	25	21	548	418	3.9	.46	14
8	5.4	12	14	40	41	25	33	460	530	2.5	.40	14
9	5.4	12	13	38	46	23	27	376	628	1.3	.70	12
10	5.4	12	12	36	37	23	23	313	616	3.6	.64	21
11	5.4	12	12	38	29	23	42	223	548	3.3	1.4	152
12	5.7	12	12	34	64	27	184	145	460	59	3.9	320
13	8.9	12	13	28	49	25	231	116	385	682	151	174
14	17	13	15	24	37	23	187	93	302	380	94	145
15	56	13	15	26	34	23	178	61	242	172	36	95
16	20	12	15	40	28	22	164	37	164	292	14	50
17	12	12	18	42	42	22	238	37	97	572	214	40
18	12	11	48	36	59	22	182	29	40	580	97	34
19	12	11	67	37	56	21	138	28	22	407	27	26
20	14	12	59	40	43	21	89	24	15	172	14	16
21	13	12	64	38	37	22	170	27	12	99	13	14
22	12	12	62	36	34	22	189	27	8.9	95	14	12
23	12	12	58	36	28	21	124	23	7.1	45	12	67
24	12	14	62	40	27	22	256	24	6.0	27	11	43
25	12	14	72	33	28	21	394	23	3.5	22	10	16
26	12	13	61	29	33	20	526	21	.58	26	11	30
27	13	12	65	40	36	22	608	21	.70	13	27	18
28	13	12	58	42	27	21	608	20	18	10	17	15
29	12	12	53	30	---	21	544	18	20	8.2	89	13
30	12	13	62	32	---	34	560	17	12	5.4	17	13
31	13	---	59	32	---	47	---	444	---	4.4	47	---
TOTAL	354.2	369	1081	1135	1047	753	5882	7799	7411.78	3799.2	957.60	1612
MEAN	11.4	12.3	34.9	36.6	37.4	24.3	196	252	247	123	30.9	53.7
MAX	56	14	72	67	64	47	608	990	628	682	214	320
MIN	5.4	11	12	20	24	20	21	17	.58	1.3	.40	11
AC-FT	703	732	2140	2250	2080	1490	11670	15470	14700	7540	1900	3200

CAL YR 1980 TOTAL 294700.20 MEAN 805 MAX 7880 MIN 4.7 AC-FT 584500
WTR YR 1981 TOTAL 32200.78 MEAN 88.2 MAX 990 MIN .40 AC-FT 63870

09169500 DOLORES RIVER AT BEDROCK, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--November 1979 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: November 1979 to current year.
WATER TEMPERATURES: November 1979 to current year.

INSTRUMENTATION.--Water-quality monitor since November 1979.

REMARKS.--Daily maximum and minimum specific-conductance and water-temperatures data available in district office.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 4,790 micromhos July 12, 1981; minimum, 201 micromhos Aug. 31, 1981.
WATER TEMPERATURES: Maximum, 33.5°C Aug. 7, 1981; minimum, freezing point on many days during winter months.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 4,790 micromhos July 12; minimum, 201 micromhos Aug. 31.
WATER TEMPERATURES: Maximum, 33.5°C Aug. 7; minimum, 0.0°C many days during November to February.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1240	1890	1930	1030	1210	1380	1950	323	407	933	1350	1280
2	1260	2060	1960	1040	1170	1310	1910	322	335	986	1400	1260
3	1320	2070	2080	1040	1130	1310	1910	287	292	1270	1690	1340
4	1360	2060	2170	1100	1190	1340	1870	302	272	1240	1690	1410
5	1380	1920	2100	1180	1260	1400	1830	230	265	1070	1510	1530
6	1340	1870	2180	1180	1190	1470	1830	240	270	1500	1360	1330
7	1340	1820	2030	1240	1200	1450	1770	280	276	2030	1360	1080
8	1320	1760	2110	1330	1180	1450	1760	300	276	2430	1380	1360
9	1300	1700	2160	1170	1200	1500	1820	330	254	2740	1310	1370
10	1270	1710	2130	1100	1180	1520	1730	370	225	2910	1300	1180
11	1260	1700	2090	1140	1260	1510	1670	410	219	2850	1280	1550
12	1230	1690	2110	1170	1200	1510	1530	460	229	2630	1290	2170
13	1230	1680	1870	1170	1130	1550	1230	520	243	1210	823	1880
14	953	1670	1900	1190	1170	1570	969	580	253	1600	1660	1790
15	2400	1640	2170	1280	1250	1570	777	650	281	1800	2260	1820
16	3250	1700	2500	1340	1240	1560	641	740	326	1650	1990	1830
17	1960	1730	2490	1320	1420	1550	615	840	382	932	2210	1430
18	1570	1750	2700	1270	1270	1560	629	970	477	1160	2050	1590
19	1250	1710	2790	1220	1170	1560	682	1080	557	1660	2350	2160
20	1020	1650	2470	1200	1180	1570	714	1020	636	1830	1850	1830
21	1350	1520	2210	1200	1260	1560	628	1010	729	1760	1750	1490
22	1760	1430	2860	1210	1270	1570	651	1050	788	1660	1540	1630
23	2010	1450	2900	1230	1190	1610	752	1090	914	1630	1720	1390
24	2100	1460	1890	1210	1060	1640	656	1090	987	1650	1780	786
25	2100	1560	1310	1190	1060	1640	626	1120	933	1660	1770	1350
26	1990	2010	1170	1190	1000	1700	442	1150	728	1640	1780	2430
27	1770	2530	1100	1190	1010	1730	354	1180	788	1630	2460	2300
28	1620	2270	1060	1140	1200	1760	323	1250	1080	1530	2090	2310
29	1780	2110	1060	1160	---	1780	305	1320	1380	1530	971	2130
30	2060	1950	1100	1150	---	1920	314	1350	1300	1550	733	1970
31	1910	---	1040	1230	---	1970	---	1290	---	1500	886	---

09169500 DOLORES RIVER AT BEDROCK, CO--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	17.0	10.5	9.0	4.0	4.0	1.0	1.0	.0	1.5	.0	6.5	4.0
2	17.5	9.5	10.0	4.0	4.5	1.0	1.0	.0	2.0	.0	5.0	4.0
3	17.0	10.0	8.0	4.0	4.5	2.0	1.5	.0	1.0	.0	4.5	4.0
4	16.5	9.5	10.5	4.5	4.5	2.5	2.0	.0	1.5	.0	---	---
5	16.0	6.0	10.0	5.0	4.0	3.0	1.5	.0	1.0	.0	---	---
6	16.5	9.0	10.5	5.5	4.5	3.0	1.0	.0	1.5	.0	---	---
7	22.5	12.5	11.5	5.5	5.0	3.5	.5	.0	1.5	.0	---	---
8	23.0	13.5	11.0	5.5	5.0	3.0	.5	.0	.0	.0	---	---
9	21.0	11.5	10.5	5.0	5.5	2.5	.5	.0	1.5	.0	---	---
10	19.5	11.0	9.5	5.0	3.5	1.0	.5	.0	2.0	.0	10.0	6.0
11	19.5	11.0	9.0	4.5	3.0	.5	.5	.0	.5	.0	10.0	7.0
12	16.0	12.0	8.0	6.5	3.0	.5	1.0	.0	1.5	.0	10.5	5.5
13	17.0	12.5	8.0	6.5	2.0	.5	1.0	.0	2.0	.0	9.0	5.5
14	15.0	12.5	7.5	4.5	2.5	.0	1.0	.0	2.5	.0	10.0	5.0
15	12.5	8.5	6.5	3.0	2.0	.0	1.5	.0	3.5	.0	11.5	5.5
16	10.0	7.0	5.0	2.0	2.0	.0	1.0	.0	4.0	.0	8.5	6.0
17	10.0	6.0	4.0	.5	2.0	.0	2.0	.0	3.5	.5	8.0	4.0
18	12.0	5.5	3.0	.0	1.5	.0	1.5	.0	4.0	.0	8.5	3.0
19	13.5	6.0	3.0	.0	1.0	.0	1.5	.0	4.0	.5	7.5	4.0
20	13.0	6.0	3.5	.0	1.0	.0	2.0	.0	4.0	1.5	6.0	4.0
21	13.0	6.0	3.0	.0	1.5	.0	2.0	.0	4.5	.5	7.5	3.5
22	13.5	6.5	3.0	.0	2.5	.0	1.5	.0	4.5	.0	9.5	4.0
23	11.5	6.0	3.5	.5	3.0	1.0	1.5	.0	6.5	.5	11.5	6.5
24	11.0	4.0	2.5	1.0	2.0	.0	2.0	.0	8.0	6.0	12.5	7.5
25	10.5	3.5	3.0	.0	2.5	.0	2.0	.0	10.0	6.5	12.5	6.5
26	6.5	5.5	3.5	.5	2.0	.0	1.0	.0	10.0	7.0	11.0	8.0
27	6.0	4.5	3.0	.5	2.0	.0	1.0	.0	10.5	7.0	9.5	6.5
28	7.0	3.0	3.0	.5	2.0	.0	2.0	.5	11.5	4.5	8.0	6.5
29	8.5	3.0	2.5	.5	2.5	.0	3.5	.5	---	---	12.5	5.5
30	9.0	3.5	2.5	.5	1.5	.0	1.5	.5	---	---	9.0	6.5
31	9.5	4.0	---	---	1.5	.0	1.0	.0	---	---	11.5	5.5

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	12.0	6.0	19.0	11.0	22.0	17.5	23.5	21.0	30.0	21.0	20.0	12.5
2	13.0	7.5	19.0	14.0	21.0	18.5	27.0	20.0	31.5	22.0	23.0	16.5
3	11.0	8.5	18.0	14.0	20.0	18.0	27.5	20.5	32.0	21.5	25.5	17.5
4	12.0	7.0	16.5	13.5	21.5	17.5	28.5	21.0	32.5	21.0	24.5	17.0
5	14.0	7.0	17.0	13.0	22.0	18.0	30.5	21.0	32.0	20.0	20.0	18.0
6	15.5	8.5	17.0	13.5	22.5	18.5	31.5	21.5	32.5	18.5	19.0	15.0
7	16.5	9.5	17.5	13.5	22.5	19.5	31.5	22.0	33.5	18.0	24.5	15.5
8	17.5	11.0	16.0	12.0	22.5	19.5	32.5	22.0	30.0	18.5	24.0	17.0
9	18.0	12.0	18.5	12.0	22.5	19.5	31.0	21.5	30.5	20.0	23.0	17.0
10	18.0	12.5	18.5	13.5	22.5	19.0	30.5	22.0	26.0	19.0	19.5	16.0
11	17.5	12.5	19.0	13.0	22.0	19.0	32.5	22.5	24.5	18.5	19.0	15.0
12	15.5	13.0	19.5	13.5	21.0	18.5	27.0	20.5	24.5	18.0	17.5	14.0
13	17.0	13.0	22.0	14.0	20.5	17.5	23.5	19.5	20.0	16.0	19.0	13.5
14	16.0	12.5	22.5	14.5	18.0	15.5	24.0	20.0	22.0	16.5	19.0	15.0
15	16.0	12.0	20.0	14.0	17.5	13.0	26.5	21.5	22.5	18.5	20.0	14.5
16	17.0	12.5	18.0	13.5	18.5	14.0	23.0	21.0	24.0	17.0	22.0	15.5
17	17.5	11.5	18.5	14.5	20.5	15.0	22.0	19.0	23.5	17.0	21.5	14.5
18	16.5	13.5	19.5	15.5	22.5	16.0	23.0	19.5	23.0	17.0	21.0	14.0
19	16.0	11.5	20.5	16.5	23.5	16.5	25.0	20.0	24.0	16.5	20.0	14.0
20	13.5	10.5	17.5	15.0	25.0	18.0	25.5	20.5	26.0	17.0	21.0	14.0
21	14.5	10.0	18.5	13.0	27.0	18.5	27.0	21.0	24.0	17.5	22.0	15.0
22	16.0	12.0	19.5	14.5	28.5	18.5	27.5	22.0	24.5	17.0	21.0	14.0
23	18.0	13.0	22.0	15.5	27.0	19.0	28.0	21.0	27.5	17.0	20.0	12.5
24	19.0	14.0	22.0	17.0	27.5	19.0	27.0	20.5	27.0	18.0	18.5	13.0
25	18.5	12.5	21.0	18.0	30.5	19.0	24.5	20.5	27.5	18.0	18.0	14.0
26	17.5	13.0	21.0	17.5	31.5	18.0	26.5	20.5	27.0	17.5	19.5	12.5
27	17.0	11.0	23.0	17.0	31.0	19.5	28.0	20.0	24.5	18.5	18.5	12.0
28	17.5	14.0	24.5	19.0	26.5	19.0	26.5	19.5	24.5	18.0	19.0	12.0
29	18.0	11.0	24.0	18.5	27.0	20.0	30.0	19.5	23.5	18.0	17.5	13.5
30	19.0	11.5	27.0	18.5	29.5	20.5	29.5	19.5	24.0	18.5	18.5	12.5
31	---	---	22.0	19.0	---	---	28.0	20.0	25.0	11.5	---	---

09171100 DOLORES RIVER NEAR BEDROCK, CO

LOCATION.--Lat 38°21'29", long 108°49'54", in SW¼NW¼ sec.2, T.47 N., R.18 W., Montrose County, Hydrologic Unit 14030002, on right bank 2.5 mi (4.0 km) downstream from West Paradox Creek and 4.3 mi (6.9 km) northeast of Bedrock.

DRAINAGE AREA.--2,145 mi^2 (5,556 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1971 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 4,910 ft (1,497 m), from topographic map. Prior to Feb. 1, 1972, at site 400 ft (120 m) upstream at datum 1.02 ft (0.311 m) higher.

REMARKS.--Records good. Diversions above station for irrigation of about 41,000 acres (170 km^2), of which about 33,000 acres (130 km^2) is in the San Juan River basin.

AVERAGE DISCHARGE.--10 years, 452 ft^3/s (12.80 m^3/s), 327,500 acre-ft/yr (404 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,500 ft^3/s (269 m^3/s) Apr. 30, 1973, gage height, 12.88 ft (3.926 m), from floodmarks; minimum daily, 0.12 ft^3/s (0.003 m^3/s) July 17, 18, 1977.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Sept. 6, 1970, reached a stage of 11.25 ft (3.429 m), site and datum in use prior to Feb. 1, 1972 (discharge, 5,710 ft^3/s or 162 m^3/s), by slope-area measurement at site 1,400 ft (430 m) upstream.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,310 ft^3/s (37.1 m^3/s) at 1500 May 5, gage height, 6.62 ft (2.018 m); minimum daily, 3.6 ft^3/s (0.10 m^3/s) Aug. 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.5	20	23	65	51	47	47	588	405	27	9.2	86
2	8.5	21	23	70	40	47	41	705	516	23	18	29
3	8.0	21	23	50	41	49	34	660	484	42	8.2	19
4	8.5	22	23	40	45	44	30	955	464	38	6.6	14
5	8.0	22	24	44	45	41	29	1100	552	18	6.0	28
6	8.5	22	27	34	45	39	28	735	405	12	5.2	106
7	8.0	21	27	30	45	38	27	540	408	9.2	4.4	26
8	8.0	21	27	50	46	38	38	432	528	7.5	4.1	18
9	7.7	21	24	46	61	38	38	363	656	6.2	4.0	16
10	7.5	21	22	44	58	38	32	298	640	6.6	3.6	26
11	7.5	21	20	43	41	37	31	202	572	8.2	8.2	99
12	7.7	21	20	50	66	38	142	132	464	59	6.0	274
13	10	21	22	45	53	39	198	112	399	559	135	197
14	22	21	23	34	53	38	165	90	345	505	79	123
15	47	21	24	35	53	36	151	76	248	147	60	84
16	38	21	26	49	48	34	137	58	171	280	26	55
17	20	20	26	55	52	32	198	53	126	542	150	32
18	16	19	53	47	65	31	165	44	82	716	128	26
19	15	18	64	50	67	31	130	36	59	545	41	26
20	18	19	61	50	60	30	100	34	43	161	20	20
21	19	19	63	48	56	28	126	31	30	106	15	18
22	19	20	65	49	53	28	167	33	20	78	18	16
23	18	20	62	47	47	27	129	31	17	52	13	33
24	18	25	64	52	46	27	200	30	14	40	12	54
25	18	27	70	50	47	27	345	31	12	38	11	19
26	18	24	65	44	53	26	492	29	7.7	38	11	39
27	20	21	64	48	59	27	572	27	6.2	20	28	27
28	20	22	64	59	47	27	600	27	9.8	15	24	20
29	20	23	55	52	---	27	524	23	32	13	70	17
30	20	23	65	53	---	34	532	21	20	10	21	15
31	20	---	65	50	---	45	---	314	---	9.2	19	---
TOTAL	492.4	638	1284	1483	1443	1088	5448	7810	7735.7	4130.9	964.5	1562
MEAN	15.9	21.3	41.4	47.8	51.5	35.1	182	252	258	133	31.1	52.1
MAX	47	27	70	70	67	49	600	1100	656	716	150	274
MIN	7.5	18	20	30	40	26	27	21	6.2	6.2	3.6	14
AC-FT	977	1270	2550	2940	2860	2160	10810	15490	15340	8190	1910	3100

CAL YR 1980 TOTAL 301482.3 MEAN 824 MAX 7460 MIN 7.5 AC-FT 598000
WTR YR 1981 TOTAL 34079.5 MEAN 93.4 MAX 1100 MIN 3.6 AC-FT 67600

09171100 DOLORES RIVER NEAR BEDROCK, CO--Continued
(Water-Quality Monitor)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--December 1979 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: December 1979 to current year.
WATER TEMPERATURES: December 1979 to current year.

INSTRUMENTATION.--Water-quality monitor since December 1979.

REMARKS.--Daily maximum and minimum specific-conductance and water-temperature data available in district office.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 83,300 micromhos Aug. 9, 1981; minimum, 116 micromhos May 22, 1980.
WATER TEMPERATURES: Maximum, 33.5°C July 10, 1981; minimum, -1.5°C several days during November to January 1981 water year.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 83,300 micromhos Aug. 9; minimum, 269 micromhos May 5.
WATER TEMPERATURES: Maximum, 33.5°C July 10; minimum, -1.5°C on several days during November to January.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12300	12300	14900	4390	5770	7700	5280	551	726	9410	19900	1580
2	12800	12300	14000	4150	7220	7370	6790	539	543	9490	14500	2190
3	13400	12800	14500	5070	6730	7000	8140	523	506	9620	17300	3820
4	13900	12600	14800	6250	6220	7780	8600	481	519	8870	22600	5900
5	14400	13100	14200	6960	6020	8340	9900	356	483	9810	28300	7390
6	14600	13500	13100	8030	6340	8940	11100	623	495	11300	35600	4390
7	15200	13800	13200	10700	5810	8230	12800	918	575	14200	48400	3540
8	15800	14000	13200	6440	5540	7540	8310	1230	563	19300	61300	5390
9	16400	14100	14700	6500	4120	7980	8390	1560	521	24700	72200	5900
10	16300	14200	14500	7150	4560	8440	10100	1970	460	31500	71200	5100
11	16400	14400	16700	6410	5820	8370	10800	2460	481	24800	51000	3320
12	17900	14800	15800	6720	4590	7540	3060	3190	552	17500	35100	1400
13	14100	14500	13600	8070	5110	7670	1810	3880	611	3280	8710	1960
14	8420	13900	13300	10200	5480	8100	1680	4850	636	2760	2460	2470
15	4770	14500	11400	9770	5590	8340	1630	5640	758	3090	1060	2920
16	6090	15000	11300	7140	6690	8740	1710	7130	1290	3270	1860	3260
17	9170	16100	11700	5790	6440	8900	1380	8370	1960	2840	2260	3540
18	10300	17400	7150	6860	4420	9020	1430	9840	2850	2440	2260	4130
19	11100	18000	5000	6120	4320	9390	1850	11200	4000	1940	2760	4750
20	8570	17000	4940	5600	5290	9950	2470	10700	5090	2220	4860	5460
21	8800	16800	4420	5240	5260	9400	2340	10300	6450	2580	10600	6380
22	9970	17200	4280	5300	6000	8650	1490	9680	8280	3610	12800	7380
23	10500	15700	5350	5490	7150	9050	2020	12000	10300	4530	12100	8160
24	11100	15400	4830	5410	7200	8620	1910	12900	12100	5430	10200	7020
25	12300	12700	3730	5770	7110	8400	1070	11400	13800	6230	8520	6570
26	13100	14300	3770	5740	6570	9700	829	13800	18000	6640	8070	5480
27	11400	16900	3810	5930	5500	8900	675	13800	25900	7590	5720	4940
28	10600	16700	4010	4750	7530	8570	605	14600	29400	9640	3570	6040
29	11200	15600	4380	5990	---	8710	597	16300	11900	11700	2320	6510
30	12100	15500	4090	5550	---	7070	576	18000	9350	14500	1870	7250
31	12500	---	4410	5750	---	5180	---	5270	---	18000	2120	---

09171100 DOLORES RIVER NEAR BEDROCK, CO--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	25.0	13.0	11.5	2.5	7.0	-0.5	3.0	-0.5	4.5	.0	9.5	3.0
2	23.5	13.0	11.0	2.5	6.5	-0.5	3.0	-0.5	3.5	.0	6.5	4.0
3	23.5	11.5	9.5	2.0	7.5	1.0	4.0	-1.5	3.0	.0	7.5	4.0
4	23.5	11.5	10.5	1.5	6.5	1.5	5.5	.0	4.0	.0	10.0	2.0
5	23.0	11.5	11.5	3.0	5.0	3.0	2.5	.0	3.5	.0	11.0	2.5
6	23.5	12.0	11.5	3.0	7.5	2.5	1.0	-1.5	5.0	.0	8.5	4.5
7	21.0	11.5	12.0	3.5	6.5	3.0	.0	-1.5	4.5	.0	10.5	3.0
8	21.5	9.5	11.5	3.0	6.5	2.0	1.0	-1.0	1.0	.0	12.0	1.5
9	21.0	9.0	11.5	3.0	7.0	1.5	.0	-1.0	3.0	.0	12.5	1.0
10	20.5	8.5	11.0	2.5	6.5	.5	1.0	-1.0	4.0	.0	11.0	2.5
11	19.0	8.5	10.5	2.5	6.0	.0	1.0	-1.0	.0	.0	12.0	5.5
12	14.0	10.0	9.0	6.0	5.5	.0	3.0	-1.0	4.0	.0	12.5	3.5
13	16.5	10.5	9.0	6.5	4.0	.0	5.0	-1.0	6.5	.0	11.5	2.5
14	15.0	11.5	8.5	2.0	5.0	.0	3.0	-1.0	6.0	.0	13.0	4.0
15	12.0	8.0	7.5	-0.5	4.5	.0	4.5	.0	8.0	.0	15.5	4.5
16	11.5	7.0	6.0	-1.5	5.5	.0	5.0	.0	9.0	.0	11.5	3.5
17	12.5	5.0	5.5	-1.0	5.5	-0.5	6.5	.5	7.5	.0	11.0	3.0
18	13.0	4.5	5.0	-1.5	5.5	.0	6.0	.5	8.0	-1.0	12.5	.0
19	14.0	4.5	5.0	-1.5	4.5	.0	5.5	.5	7.5	-0.5	11.0	1.5
20	12.0	5.0	5.5	-1.5	4.0	-0.5	6.0	.0	5.0	1.0	7.5	4.0
21	12.0	3.0	5.5	-1.0	4.5	-0.5	6.0	.0	7.5	-0.5	11.5	2.5
22	12.0	3.5	4.0	-1.0	5.5	-0.5	5.0	-0.5	8.5	-0.5	15.0	2.0
23	10.5	2.0	6.0	-1.0	6.5	1.5	3.5	.0	10.0	.0	17.0	3.5
24	10.0	.5	4.5	.0	4.5	.5	5.5	.0	10.0	.0	14.0	6.0
25	10.5	.0	6.5	-1.0	4.5	-1.0	6.5	.0	9.0	.0	15.0	3.5
26	6.0	4.0	6.0	-0.5	4.5	-1.0	3.0	.0	6.5	2.0	12.0	6.0
27	7.5	3.0	5.0	-1.0	4.0	-1.0	2.5	-0.5	9.0	.5	12.5	4.5
28	9.0	.5	6.0	-1.0	3.0	-1.5	4.5	.0	11.5	1.0	10.0	5.0
29	10.0	.5	3.5	-0.5	3.5	-1.5	7.5	1.0	---	---	16.5	3.0
30	10.5	1.5	4.5	.0	1.5	-1.0	3.5	.0	---	---	11.0	5.5
31	11.0	2.0	---	---	3.5	-1.0	2.0	.0	---	---	15.0	2.5

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	15.0	4.5	19.5	15.0	23.0	16.0	23.0	20.5	32.0	19.5	27.0	16.5
2	15.0	5.0	19.0	16.0	21.0	18.0	30.0	18.5	33.0	21.0	24.5	15.5
3	11.5	6.5	18.5	16.0	20.5	16.5	30.0	18.5	32.5	20.5	27.5	16.5
4	13.5	4.5	17.5	14.0	22.5	16.5	30.5	19.0	31.5	19.5	27.5	15.5
5	17.5	3.0	16.5	13.0	22.0	17.0	32.0	18.5	32.5	17.5	22.0	17.5
6	17.0	4.0	16.5	13.5	24.0	17.5	32.0	19.5	32.0	17.0	22.0	15.5
7	17.0	5.0	17.5	13.5	24.0	18.5	30.5	20.5	31.5	15.5	26.5	15.5
8	17.0	6.0	15.5	12.5	23.0	18.5	33.0	21.0	31.5	16.5	27.5	15.0
9	18.5	6.5	18.5	11.5	22.5	19.0	31.5	20.0	30.0	17.0	26.0	16.5
10	18.0	7.0	18.5	13.0	22.5	18.5	33.5	19.5	25.5	17.0	21.5	15.0
11	18.5	7.0	19.0	13.5	22.5	18.0	33.0	20.5	25.0	16.5	23.5	14.0
12	15.0	8.5	20.0	13.0	23.0	17.5	30.5	21.0	28.0	16.0	20.0	15.5
13	16.5	10.0	23.5	12.0	22.5	17.0	24.0	20.0	21.5	17.0	22.5	13.5
14	15.5	10.0	22.5	13.0	19.5	14.5	26.0	19.5	24.0	15.0	24.0	14.5
15	18.0	11.0	20.0	14.0	20.0	12.5	28.5	20.5	26.0	18.0	24.5	15.0
16	19.0	9.5	17.0	13.0	22.0	12.5	24.0	21.5	27.5	16.5	25.5	16.0
17	19.0	11.5	18.5	12.5	23.0	12.5	22.5	21.0	24.5	16.0	26.0	14.5
18	17.5	12.0	23.5	12.0	24.5	14.0	23.5	20.0	26.5	17.0	26.0	13.5
19	18.0	11.5	18.5	11.5	26.0	14.5	26.5	20.5	24.5	17.0	25.5	13.5
20	15.0	10.0	14.5	10.5	27.0	15.5	28.0	20.5	25.5	17.5	24.5	13.0
21	17.0	8.5	15.0	7.5	28.0	16.0	28.5	19.5	23.0	17.5	25.0	14.0
22	18.5	10.5	17.5	9.0	29.5	16.5	28.0	20.5	25.5	17.5	24.0	13.5
23	21.0	10.5	23.5	10.5	26.5	17.0	28.5	20.5	27.5	17.5	23.5	13.5
24	20.0	11.0	22.0	12.0	28.5	16.5	29.5	20.0	26.5	19.0	23.0	13.0
25	20.0	14.5	19.5	14.0	30.0	17.0	25.5	19.5	27.0	18.5	20.5	13.0
26	18.5	14.0	19.5	13.5	31.5	18.5	27.0	19.5	27.0	18.0	22.0	11.5
27	17.0	14.0	25.0	13.5	32.0	18.5	29.0	17.5	27.0	18.0	22.5	10.5
28	17.5	13.0	26.0	15.5	27.5	18.0	28.0	17.5	25.0	18.0	21.0	11.0
29	18.5	13.5	25.0	15.0	30.0	18.0	30.0	17.5	26.0	19.0	19.0	12.5
30	19.0	14.0	29.0	15.5	31.0	18.5	30.0	18.5	24.0	19.0	21.5	12.0
31	---	---	21.5	18.0	---	---	29.0	19.0	25.5	18.0	---	---

09172500 SAN MIGUEL RIVER NEAR PLACERVILLE, CO

LOCATION.--Lat 38°02'05", long 108°07'15", in NW¼SW¼ sec.30, T.44 N., R.11 W., San Miguel County, Hydrologic Unit 14030003, on right bank 0.7 mi (1.1 km) downstream from Specie Creek and 4.0 mi (6.4 km) northwest of Placerville.

DRAINAGE AREA.--308 mi² (798 km²).

PERIOD OF RECORD.--January to December 1909, September 1910 to December 1912, April 1930 to September 1934, April 1942 to current year. Monthly discharge only for some periods, published in WSP 1313. Published as "at Placerville," 1910-12.

GAGE.--Water-stage recorder. Datum of gage is 7,055.80 ft (2,150.608 m) (Water and Power Resources Service bench mark). See WSP 1713 or 1733 for history of changes prior to Oct. 21, 1958.

REMARKS.--Records good except those for winter period, which are poor. Diversions for irrigation of about 1,700 acres (6.88 km²) above station. One diversion from Fall Creek for irrigation of about 2,000 acres (8.09 km²) in Beaver and Saltado Creek basins. One small ditch diverts water from Leopard Creek to Uncompangre River basin. Slight regulation by Lake Hope and Trout Lake of Western Colorado Co., combined capacity, 5,040 acre-ft (6.21 hm³). Several observations of specific conductance and water temperature were obtained and are published elsewhere in this report.

AVERAGE DISCHARGE.--45 years (water years 1911-12, 1931-34, 1943-81), 224 ft³/s (6.344 m³/s), 162,300 acre-ft/yr (200 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 10,000 ft³/s (283 m³/s) Sept. 5, 1909 (result of failure of Trout and Middle Reservoir Dams); minimum daily, 26 ft³/s (0.74 m³/s) Jan. 5, 1960.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 900 ft³/s (25 m³/s) and maximum (*):

Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)
June 9	2400	*1,150	32.6	4.49	1.369	July 14	2000	960	27.2	4.27	1.286

Minimum daily discharge, 36 ft³/s (1.02 m³/s) Feb. 12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	74	68	65	55	44	47	51	303	420	323	152	150
2	67	69	68	55	48	48	57	283	425	366	145	138
3	64	68	65	60	46	52	63	362	486	307	145	130
4	65	67	64	60	44	51	56	283	420	271	138	130
5	65	65	65	60	42	49	50	279	465	255	138	128
6	64	64	67	60	42	52	58	259	561	227	132	150
7	64	62	67	55	44	51	64	234	780	196	124	161
8	64	61	65	50	44	50	68	210	920	182	112	142
9	61	61	65	50	42	45	70	173	980	202	101	142
10	63	61	60	50	42	52	86	155	900	348	112	176
11	62	60	55	50	40	52	106	158	910	271	158	188
12	62	59	60	50	36	50	112	150	830	380	167	227
13	68	63	60	50	38	50	112	135	690	542	150	255
14	67	63	60	50	42	51	120	138	568	569	138	206
15	76	54	60	50	44	46	128	135	430	603	148	192
16	72	51	60	50	46	47	142	132	395	610	152	179
17	70	51	60	50	48	49	174	126	425	486	152	167
18	69	54	60	48	50	47	164	114	440	445	164	155
19	67	61	60	50	50	51	185	122	420	358	135	145
20	68	74	60	48	48	51	167	140	460	307	128	155
21	70	72	55	48	48	53	148	140	450	267	120	135
22	69	76	55	46	45	51	161	130	450	248	150	130
23	67	70	60	46	50	54	164	122	415	259	122	118
24	62	62	55	46	56	56	192	126	366	255	116	122
25	67	60	55	46	52	58	213	138	344	238	124	135
26	68	60	55	44	50	58	224	148	353	303	114	112
27	68	60	55	40	49	59	227	176	362	291	120	108
28	67	65	55	42	51	53	227	255	353	241	128	106
29	62	70	55	44	---	50	252	331	315	192	112	96
30	67	70	55	42	---	55	275	331	307	182	114	89
31	68	---	55	42	---	49	---	410	---	167	152	---
TOTAL	2067	1901	1856	1537	1281	1587	4116	6198	15640	9891	4163	4467
MEAN	66.7	63.4	59.9	49.6	45.8	51.2	137	200	521	319	134	149
MAX	76	76	68	60	56	59	275	410	980	610	167	255
MIN	61	51	55	40	36	45	50	114	307	167	101	89
AC-FT	4100	3770	3680	3050	2540	3150	8160	12290	31020	19620	8260	8860

CAL YR 1980 TOTAL 89517 MEAN 245 MAX 1540 MIN 40 AC-FT 177600
WTR YR 1981 TOTAL 54704 MEAN 150 MAX 980 MIN 36 AC-FT 108500

09173000 BEAVER CREEK NEAR NORWOOD, CO

LOCATION.--Lat 37°58'13", Long 108°11'42", in NE¼SW¼ sec.21, T.43 N., R.12 W., San Miguel County, Hydrologic Unit 14030003, on right bank 250 ft (76 m) downstream from county road culvert, 550 ft (170 m) upstream from Goat Creek, and 13 mi (21 km) southeast of Norwood.

DRAINAGE AREA.--40.6 mi^2 (105.2 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1941 to September 1961, October 1962 to September 1967, April 1975 to September 1981 (discontinued). Monthly discharge only for some periods, published in WSP 1313.

GAGE.--Water-stage recorder. Altitude of gage is 8,010 ft (2,441 m), from topographic map. Prior to July 16, 1952, at site 135 ft (41 m) downstream at different datums. July 17, 1952, to Sept. 30, 1961, at site 85 ft (26 m) downstream at different datum. Oct. 1, 1962, to Sept. 30, 1967, at site 200 ft (61 m) upstream at datum 8,016.81 ft (2,443.524 m) National Geodetic Vertical Datum of 1929 (U.S. Bureau of Reclamation bench mark). Datum lowered 2.00 ft (0.610 m) Oct. 1, 1948, and raised 8.00 ft (2.438 m) Oct. 1, 1962. Concrete control July 16, 1964, to Sept. 30, 1967.

REMARKS.--Records good except those for winter period and those for period of no gage-height record, which are poor. Gurley ditch (station 09172700) diverts water above station to Gurley Reservoir, capacity, 8,800 acre-ft (10.9 hm^3); prior to September 1948, 3,200 acre-ft (3.95 hm^3), for irrigation of about 12,000 acres (48.6 km^2) in Naturita Creek drainage.

COOPERATION.--Records collected and computed by Colorado Division of Water Resources and reviewed by Geological Survey.

AVERAGE DISCHARGE.--31 years (water years 1942-61, 1963-67, 1976-81), 15.0 ft^3/s (0.425 m^3/s), 10,870 acre-ft/yr (13.4 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 750 ft^3/s (21.2 m^3/s) June 9 or 10, 1952, gage height, 5.67 ft (1.728 m), from floodmarks, site and datum then in use, from rating curve extended above 370 ft^3/s (10 m^3/s); no flow at times in many years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 37 ft^3/s (1.05 m^3/s) at 0630 May 3, gage height, 3.57 ft (1.088 m); no flow Aug. 8, 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.28	.94	1.6	3.6	1.0	3.0	3.0	11	8.9	1.6	.30	.25
2	.38	.94	1.5	3.5	1.0	3.0	4.0	10	7.5	3.9	.28	.25
3	.32	.94	1.6	3.6	1.0	3.0	4.5	24	7.2	1.9	.25	.14
4	.35	1.0	2.1	3.6	1.5	3.0	3.0	14	6.3	1.5	.18	.10
5	.38	1.0	3.3	3.8	1.5	2.5	2.0	11	5.1	1.2	.12	.10
6	.38	1.1	3.5	3.6	1.5	3.0	3.0	9.7	4.3	.80	.06	.10
7	.38	1.1	3.1	3.6	1.5	2.5	4.5	8.9	3.6	.72	.01	.20
8	.40	1.1	2.8	3.1	1.5	2.5	5.0	8.3	3.6	.60	.00	.35
9	.40	1.0	2.5	3.0	1.5	3.0	6.0	7.5	3.2	.52	.00	.35
10	.44	.94	2.0	3.0	1.5	3.0	9.0	7.5	3.2	2.1	.02	.30
11	.44	.94	2.0	3.0	.90	3.0	13	7.2	3.0	2.1	.32	.25
12	.48	1.0	2.5	3.0	1.5	3.0	15	6.7	2.7	2.5	1.0	.35
13	.64	1.5	2.5	2.5	2.0	3.0	20	6.5	2.2	3.0	.80	.64
14	.76	1.4	2.5	2.5	2.0	3.0	23	5.8	2.0	3.5	.60	1.1
15	1.4	1.0	2.5	2.5	2.5	3.0	23	6.3	2.0	3.5	.70	1.4
16	1.4	1.0	2.5	2.5	2.0	3.0	21	7.2	2.0	3.9	.80	1.3
17	1.3	.80	3.0	2.5	2.0	3.0	20	7.5	1.8	3.5	.90	.94
18	1.2	.87	3.0	2.5	2.0	2.5	20	6.3	1.7	3.6	.80	.64
19	1.2	.87	3.0	2.5	2.0	3.0	21	5.4	1.5	3.6	.60	.48
20	1.2	.87	3.0	2.5	2.0	3.5	16	5.8	1.1	2.7	.45	.40
21	1.2	.94	3.0	2.5	1.5	3.0	16	6.5	.72	2.0	.30	.35
22	1.2	.94	3.2	2.5	1.5	2.5	15	5.4	.52	1.4	.35	.35
23	1.1	1.0	3.3	2.5	2.0	3.0	13	5.1	.44	.76	.40	.35
24	1.0	1.2	3.3	2.5	2.5	3.5	12	5.8	.35	.87	.25	.56
25	.94	1.3	3.3	2.5	3.0	3.0	12	5.4	.30	.87	.25	.72
26	.94	1.0	3.3	2.0	3.0	3.5	12	5.1	.28	1.2	.25	.56
27	1.1	1.0	3.2	1.5	2.5	4.0	11	5.1	.30	1.0	.20	.35
28	1.1	1.5	3.2	1.5	2.5	3.5	11	6.7	.44	.50	.25	.30
29	1.0	1.7	3.1	2.0	---	3.0	10	7.8	1.2	.50	.25	.40
30	1.0	1.7	3.1	2.0	---	3.5	10	7.2	.80	.38	.20	.40
31	1.0	---	3.2	1.5	---	2.0	---	7.5	---	.32	.25	---
TOTAL	25.31	32.59	85.7	83.4	50.90	93.0	358.0	244.2	78.25	56.54	11.14	13.98
MEAN	.82	1.09	2.76	2.69	1.82	3.00	11.9	7.88	2.61	1.82	.36	.47
MAX	1.4	1.7	3.5	3.8	3.0	4.0	23	24	8.9	3.9	1.0	1.4
MIN	.28	.80	1.5	1.5	.90	2.0	2.0	5.1	.28	.32	.00	.10
AC-FT	50	65	170	165	101	184	710	484	155	112	22	28

CAL YR 1980 TOTAL 6019.74 MEAN 16.4 MAX 142 MIN .00 AC-FT 11940
WTR YR 1981 TOTAL 1133.01 MEAN 3.10 MAX 24 MIN .00 AC-FT 2250

NOTE.--NO GAGE-HEIGHT RECORD JAN. 26 TO APR. 17.

09173000 BEAVER CREEK NEAR NORWOOD, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--December 1977 to September 1981 (discontinued).

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN DEMAND, CHEM-ICAL (HIGH LEVEL) (MG/L)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./100 ML)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
OCT 06...	1315	.72	340	311	8.0	14.0	1.0	7.7	2	26	K18
NOV 03...	1315	1.0	310	310	8.0	5.0	--	9.5	11	K6	K4
DEC 01...	1300	1.5	320	296	8.3	.0	--	10.8	7	K3	K4
JAN 05...	1400	2.0	220	233	8.1	.0	--	10.8	1	<1	K4
FEB 02...	1420	3.0	240	251	8.0	.0	--	10.8	2	K10	<1
MAR 02...	1350	3.0	460	250	7.7	.5	--	10.7	12	K15	K25
APR 06...	1340	2.5	220	244	8.3	1.0	--	10.5	9	<1	K2
MAY 04...	1510	13	220	195	8.1	11.0	--	8.3	48	K1	K7
JUN 01...	1500	8.6	285	229	7.4	15.0	4.4	7.7	0	K1	K24
JUL 06...	1245	.80	400	298	8.0	18.0	--	6.9	21	110	74
AUG 03...	1350	.94	320	305	7.7	23.0	--	6.1	0	K510	>160
31...	1300	.20	320	318	7.8	19.0	--	7.0	34	K24	K60

DATE	HARD-NESS (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)
OCT 06...	160	44	11	6.2	.2	1.1	140	22	1.4	.1	9.6
NOV 03...	150	44	10	5.8	.2	.9	130	51	4.5	.2	9.4
DEC 01...	160	44	12	7.7	.3	1.2	130	30	2.0	.1	6.4
JAN 05...	110	31	6.9	5.2	.2	.6	81	36	1.3	.1	9.0
FEB 02...	120	32	10	7.8	.3	1.0	110	25	1.0	.1	9.6
MAR 02...	120	34	8.3	8.1	.3	.8	100	22	.7	.1	9.2
APR 06...	110	32	7.1	4.9	.2	.8	96	23	.8	.1	8.7
MAY 04...	94	28	5.9	4.2	.2	.9	75	1.4	1.0	.1	8.9
JUN 01...	120	35	7.3	7.0	.3	.9	93	21	7.2	.1	9.4
JUL 06...	150	45	9.7	6.3	.2	1.3	140	1.0	1.6	.1	11
AUG 03...	150	43	11	6.3	.2	1.3	140	<5.0	1.0	.5	11
31...	150	43	10	5.7	.2	1.3	150	1.0	1.0	.0	11

09173000 BEAVER CREEK NEAR NORWOOD, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, DISSOLVED (TONS PER DAY)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, DISSOLVED (MG/L AS P)
OCT											
06...	190	180	.26	.37	.00	.000	.30	.30	.30	.000	.010
NOV											
03...	233	204	.32	.68	.10	.040	.27	.31	.41	.040	.030
DEC											
01...	178	182	.24	.72	.00	.150	.30	.45	.45	.030	.020
JAN											
05...	161	139	.22	.87	.18	.050	.21	.26	.44	.010	.010
FEB											
02...	155	153	.21	1.2	.01	.030	.19	.22	.23	.030	.010
MAR											
02...	130	144	.18	1.0	.02	.050	.40	.45	.47	.030	.010
APR											
06...	136	135	.18	.92	.63	.020	1.1	1.10	1.7	.020	.020
MAY											
04...	130	96	.18	4.6	.04	.150	.61	.76	.80	.040	.040
JUN											
01...	137	144	.19	3.1	.00	.320	.20	.52	.52	.030	.020
JUL											
06...	178	160	.24	.38	.15	.130	.43	.56	.71	.020	.010
AUG											
03...	183	161	.25	.46	.11	.220	.15	.37	.48	.010	.030
31...	176	164	.24	.10	.12	.240	.12	.36	.48	.050	.020

DATE	BORON, DISSOLVED (UG/L AS B)	IRON, DISSOLVED (UG/L AS FE)	CARBON, ORGANIC DISSOLVED (MG/L AS C)	CARBON, ORGANIC SUSPENDED TOTAL (MG/L AS C)	PHYTOPLANKTON, TOTAL (CELLS PER ML)	PERIPHYTON BIOMASS ASH WEIGHT G/SQ M	PERIPHYTON BIOMASS TOTAL DRY WEIGHT G/SQ M	CHLOR-A PERIPHYTON CHROMOGRAPHIC FLUOROM (MG/M2)	CHLOR-B PERIPHYTON CHROMOGRAPHIC FLUOROM (MG/M2)	BIOMASS CHLOROPHYLL RATIO PERIPHYTON (UNITS)
OCT										
06...	30	18	3.5	.1	100	--	--	--	--	--
NOV										
03...	20	20	4.6	.4	140	--	--	--	--	--
DEC										
01...	80	30	8.3	.2	0	--	--	--	--	--
JAN										
05...	20	20	6.0	.2	330	--	--	--	--	--
FEB										
02...	0	30	5.6	.8	--	--	--	--	--	--
MAR										
02...	10	30	3.9	1.0	39	--	--	--	--	--
APR										
06...	0	40	4.0	.1	--	--	--	--	--	--
MAY										
04...	10	100	8.0	.3	140	--	--	--	--	--
JUN										
01...	10	48	6.3	--	100	2.52	2.84	.700	.130	457
JUL										
06...	210	20	4.6	.3	--	--	--	--	--	--
AUG										
03...	0	30	5.7	.1	560	--	--	--	--	--
31...	0	15	6.0	<.1	730	4.65	5.35	1.32	.330	530

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY)
OCT				
06...	1315	.72	6	.01
NOV				
03...	1315	1.0	1	.00
DEC				
01...	1300	1.5	4	.02
JAN				
05...	1400	2.0	4	.02
FEB				
02...	1420	3.0	3	.02
MAR				
02...	1350	3.0	4	.03
APR				
06...	1340	2.5	6	.04
MAY				
04...	1510	13	9	.32
JUN				
01...	1500	8.6	18	.42
AUG				
03...	1350	.94	2	.01
31...	1300	.20	17	.01

09173000 BEAVER CREEK NEAR NORWOOD, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DISSOLVED (UG/L AS AS)	ARSENIC TOTAL IN BOTTOM MATERIAL (UG/G AS AS)	BARIUM, TOTAL RECOVERABLE (UG/L AS BA)	BARIUM, DISSOLVED (UG/L AS BA)	BARIUM, RECOV. FM BOTTOM MATERIAL (UG/G AS BA)	BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE)	BERYLLIUM, DISSOLVED (UG/L AS BE)	BERYLLIUM, RECOV. FM BOTTOM MATERIAL (UG/G)
OCT 06...	1315	0	0	0	--	100	170	--	0	<1	--
MAR 02...	1350	20	--	0	--	--	40	--	--	<1	--
JUN 01...	1500	0	2	1	0	0	50	100	0	<1	0
AUG 31...	1300	20	--	1	--	--	70	--	--	<1	--

DATE	CADMIUM TOTAL RECOVERABLE (UG/L AS CD)	CADMIUM DISSOLVED (UG/L AS CD)	CADMIUM RECOV. FM BOTTOM MATERIAL (UG/G AS CD)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	CHROMIUM, DISSOLVED (UG/L AS CR)	CHROMIUM, RECOV. FM BOTTOM MATERIAL (UG/G)	COBALT, TOTAL RECOVERABLE (UG/L AS CO)	COBALT, DISSOLVED (UG/L AS CO)	COBALT, RECOV. FM BOTTOM MATERIAL (UG/G AS CO)	COPPER, DISSOLVED (UG/L AS CU)	COPPER, RECOV. FM BOTTOM MATERIAL (UG/G AS CU)
OCT 06...	0	<1	--	10	20	--	0	<3	--	<10	--
MAR 02...	--	2	--	--	0	--	--	<3	--	<10	--
JUN 01...	1	<1	0	0	10	1	1	<3	10	<10	5
AUG 31...	--	<1	--	--	0	--	--	<3	--	<10	--

DATE	LEAD, TOTAL RECOVERABLE (UG/L AS PB)	LEAD, DISSOLVED (UG/L AS PB)	LEAD, RECOV. FM BOTTOM MATERIAL (UG/G AS PB)	LITHIUM TOTAL RECOVERABLE (UG/L AS LI)	LITHIUM DISSOLVED (UG/L AS LI)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	MANGANESE, DISSOLVED (UG/L AS MN)	MANGANESE, RECOV. FM BOTTOM MATERIAL (UG/G)	MERCURY TOTAL RECOVERABLE (UG/L AS HG)	MERCURY DISSOLVED (UG/L AS HG)	MERCURY RECOV. FM BOTTOM MATERIAL (UG/G AS HG)
OCT 06...	1	<10	--	0	<4	10	3	--	.0	.0	--
MAR 02...	--	<10	--	--	<4	--	4	--	--	.0	--
JUN 01...	2	<10	10	0	14	20	6	360	.1	.0	.03
AUG 31...	--	<10	--	--	8	--	6	--	--	.0	--

DATE	MOLYBDENUM, TOTAL RECOVERABLE (UG/L AS MO)	MOLYBDENUM, DISSOLVED (UG/L AS MO)	MOLYBDENUM, RECOV. FM BOTTOM MATERIAL (UG/G)	NICKEL, TOTAL RECOVERABLE (UG/L AS NI)	NICKEL, DISSOLVED (UG/L AS NI)	NICKEL, RECOV. FM BOTTOM MATERIAL (UG/G AS NI)	SELENIUM, TOTAL (UG/L AS SE)	SELENIUM, DISSOLVED (UG/L AS SE)	SELENIUM, TOTAL IN BOTTOM MATERIAL (UG/G)	STRONTIUM, DISSOLVED (UG/L AS SR)	VANADIUM, DISSOLVED (UG/L AS V)
OCT 06...	1	<10	--	0	0	--	0	0	--	350	<3.0
MAR 02...	--	<10	--	--	1	--	--	1	--	230	<6.0
JUN 01...	2	<10	0	3	2	10	0	0	0	220	<6.0
AUG 31...	--	<10	--	--	0	--	--	0	--	330	<6.0

DATE	ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	ZINC, DISSOLVED (UG/L AS ZN)	ZINC, RECOV. FM BOTTOM MATERIAL (UG/G AS ZN)	GROSS ALPHA, DISSOLVED (PCI/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (PCI/L AS U-NAT)	GROSS ALPHA, DISSOLVED (UG/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT)	GROSS BETA, DISSOLVED (PCI/L AS CS-137)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137)	GROSS BETA, DISSOLVED (PCI/L AS SR/YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/YT-90)
OCT 06...	20	17	--	<2.1	<.3	<3.1	<.4	2.1	<.4	2.0	<.4
MAR 02...	--	6	--	--	--	--	--	--	--	--	--
JUN 01...	40	<3	10	2.4	.3	<3.5	<.4	2.2	.6	2.1	.5
AUG 31...	--	<3	--	--	--	--	--	--	--	--	--

09173000 BEAVER CREEK NEAR NORWOOD, CO--Continued

PHYTOPLANKTON ANALYSES, OCTOBER 1980 TO AUGUST 1981

DATE TIME	OCT 6,80 1315	NOV 3,80 1315	DEC 1,80 1300	JAN 5,81 1400	MAR 2,81 1350
TOTAL CELLS/ML	100	140	0	330	39
DIVERSITY: DIVISION	0.5	0.8	0.0	0.9	0.9
.CLASS	0.5	0.8	0.0	0.9	0.9
..ORDER	0.5	1.1	0.0	0.9	0.9
...FAMILY	2.0	1.7	0.0	1.5	1.6
....GENUS	2.0	1.7	0.0	2.2	1.6

ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)										
.CHLOROPHYCEAE										
..CHLOROCOCCALES										
...OOCYSTACEAE										
....ANKISTRODESMUS	--	-	26#	18	--	-	--	-	--	-
...SCENEDESMACEAE										
....SCENEDESMUS	--	-	77#	55	--	-	--	-	--	-
..VOLVOCALES										
...CHLAMYDOMONADACEAE										
....CHLAMYDOMONAS	--	-	--	-	--	-	--	-	--	-
CHRYSOPHYTA										
.BACILLARIOPHYCEAE										
..CENTRALES										
...COSCINODISCACEAE										
....MELOSIRA	--	-	26#	18	--	-	--	-	--	-
...RHIZOSOLENIACEAE										
....RHIZOSOLENIA	--	-	--	-	--	-	--	-	--	-
..PENNALES										
...ACHNANTHACEAE										
....ACHNANTHES	--	-	--	-	--	-	--	-	--	-
....COCCONEIS	--	-	--	-	--	-	--	-	--	-
...CYMBELLACEAE										
....CYMBELLA	13	13	--	-	--	-	14	4	--	-
...FRAGILARIACEAE										
....ASTERIONELLA	--	-	13	9	--	-	--	-	--	-
....FRAGILARIA	--	-	--	-	--	-	--	-	--	-
....SYNEDRA	--	-	--	-	--	-	14	4	--	-
...GOMPHONEMATACEAE										
....GOMPHONEMA	13	13	--	-	--	-	--	-	--	-
...NAVICULACEAE										
....NAVICULA	13	13	--	-	--	-	27	8	13#	33
...NITZSCHIACEAE										
....NITZSCHIA	52#	50	--	-	--	-	55#	17	13#	33
...SURIRELLACEAE										
....SURIRELLA	--	-	--	-	--	-	--	-	--	-
CRYPTOPHYTA (CRYPTOMONADS)										
.CRYPTOPHYCEAE										
..CRYPTOMONADALES										
...CRYPTOMONADACEAE										
....CRYPTOMONAS	13	13	--	-	--	-	--	-	13#	33
CYANOPHYTA (BLUE-GREEN ALGAE)										
.CYANOPHYCEAE										
..CHROOCOCCALES										
...CHROOCOCCACEAE										
....AGMENELLUM	--	-	--	-	--	-	--	-	--	-
....ANACYSTIS	--	-	--	-	--	-	--	-	--	-
..HORMOGONALES										
...OSCILLATORIACEAE										
....LYNGBYA	--	-	--	-	--	-	120#	38	--	-
....OSCILLATORIA	--	-	--	-	--	-	96#	29	--	-
EUGLENOPHYTA (EUGLENOIDS)										
.EUGLENOPHYCEAE										
..EUGLENALES										
...EUGLENACEAE										
....TRACHELOMONAS	--	-	--	-	--	-	--	-	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

09173000 BEAVER CREEK NEAR NORWOOD, CO--Continued

PHYTOPLANKTON ANALYSES, OCTOBER 1980 TO AUGUST 1981

DATE	APR 6,81	MAY 4,81	JUN 1,81	JUN 1,81	AUG 3,81
TIME	1340	1510	1245	1500	1300
TOTAL CELLS/ML	450	140	210	100	730
DIVERSITY: DIVISION	0.4	0.0	0.0	0.0	1.1
.CLASS	0.4	0.0	0.0	0.0	1.1
..ORDER	0.4	0.0	0.0	0.0	1.3
...FAMILY	0.4	2.0	1.7	2.2	2.3
....GENUS	0.6	2.0	1.9	2.2	2.3

ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)										
.CHLOROPHYCEAE										
..CHLOROCOCCALES										
...OOCYSTACEAE										
....ANKISTRODESMUS	--	-	--	-	--	-	--	-	--	-
...SCENEDESMACEAE										
....SCENEDESMUS	--	-	--	-	--	-	--	-	--	-
..VOLVOCALES										
...CHLAMYDOMONADACEAE										
....CHLAMYDOMONAS	13	3	--	-	--	-	--	-	--	-
CHRYSOPHYTA										
.BACILLARIOPHYCEAE										
..CENTRALES										
...COSCINODISCACEAE										
....MELOSIRA	--	-	--	-	--	-	--	-	14	2
...RHIZOSOLENIACEAE										
....RHIZOSOLENIA	--	-	--	-	--	-	--	-	14	2
..PENNALES										
...ACHNANTHACEAE										
....ACHNANTHES	--	-	26#	18	--	-	--	-	--	-
....COCCONEIS	--	-	--	-	--	-	--	-	28	4
...CYMBELLACEAE										
....CYMBELLA	--	-	--	-	13	6	13	13	14	2
...FRAGILARIACEAE										
....ASTERIONELLA	--	-	--	-	--	-	--	-	--	-
....FRAGILARIA	--	-	--	-	13	6	--	-	--	-
....SYNEDRA	--	-	13	9	39#	19	13	13	--	-
...GOMPHONEMATACEAE										
....GOMPHONEMA	--	-	--	-	--	-	--	-	14	2
...NAVICULACEAE										
....NAVICULA	--	-	26#	18	39#	19	39#	38	150#	21
...NITZSCHIACEAE										
....NITZSCHIA	--	-	64#	45	100#	50	26#	25	220#	31
...SURIRELLACEAE										
....SURIRELLA	--	-	13	9	--	-	13	13	--	-
CRYPTOPHYTA (CRYPTOMONADS)										
.CRYPTOPHYCEAE										
..CRYPTOMONADALES										
...CRYPTOMONADACEAE										
....CRYPTOMONAS	13	3	--	-	--	-	--	-	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)										
.CYANOPHYCEAE										
..CHROOCOCCALES										
...CHROOCOCCACEAE										
....AGMENELLUM	410#	91	--	-	--	-	--	-	--	-
....ANACYSTIS	13	3	--	-	--	-	--	-	--	-
..HORMOGONALES										
...OSCILLATORIACEAE										
....LYNGBYA	--	-	--	-	--	-	--	-	--	-
....OSCILLATORIA	--	-	--	-	--	-	--	-	250#	35
EUGLENOPHYTA (EUGLENOIDS)										
.EUGLENOPHYCEAE										
..EUGLENALES										
...EUGLENACEAE										
....TRACHELOMONAS	--	-	--	-	--	-	--	-	14	2

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

09175000 WEST NATURITA CREEK NEAR NORWOOD, CO

LOCATION.--Lat 37°58'33", long 108°19'38", in SW¼NW¼ sec.20, T.43 N., R.13 W., San Miguel County, Hydrologic Unit 14030003, on right bank 500 ft (150 m) downstream from Middle Naturita Creek, 0.4 mi (0.6 km) downstream from Miramonte Reservoir, and 11 mi (18 km) south of Norwood.

DRAINAGE AREA.--53.0 mi^2 (137.3 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1940 to September 1952, April 1975 to September 1981 (discontinued). Prior to April 1975, published as "Naturita Creek near Norwood." Monthly discharge only for some periods, published in WSP 1313.

REVISED RECORDS.--WDR CO-75-2: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 7,601 ft (2,317 m), from topographic map.

REMARKS.--Records good. Many small diversions above station for irrigation of few hundred acres above and below station and diversion by Lilyland Canal to Dry Creek basin for few hundred acres; flow regulated by Miramonte Reservoir, capacity, 6,800 acre-ft (8.38 hm^3). Small Colorado Fish and Game Department lake would have very little effect on flow.

COOPERATION.--Records collected and computed by Colorado Division of Water Resources and reviewed by Geological Survey.

AVERAGE DISCHARGE.--18 years (water years 1941-52, 1976-81), 8.86 ft^3/s (0.251 m^3/s), 6,420 acre-ft/yr (7.92 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 943 ft^3/s (26.7 m^3/s) July 24, 1945, gage height, 5.19 ft (1.582 m), site and datum then in use, from rating curve extended above 200 ft^3/s (5.7 m^3/s), on basis of slope-area measurement at gage height 4.80 ft (1.463 m); no flow at times in 1945, 1948, 1950-51.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 34 ft^3/s (0.96 m^3/s) at 1430 Sept. 23, gage height, 3.75 ft (1.143 m); minimum daily, 0.80 ft^3/s (0.023 m^3/s) Sept. 27-30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.0	1.2	1.2	1.2	1.1	1.3	1.8	1.2	1.4	1.1	.84	.84
2	1.0	1.2	1.2	1.2	1.1	1.3	2.1	1.3	1.3	1.1	.84	.84
3	1.0	1.2	1.2	1.1	1.0	1.2	2.0	1.6	1.4	1.1	.84	.84
4	1.0	1.2	1.2	1.2	1.0	1.2	1.7	1.3	1.3	1.1	.84	.84
5	1.0	1.2	1.2	1.2	1.0	1.3	1.8	1.4	1.2	1.1	.84	.84
6	1.0	1.2	1.3	1.1	1.0	1.3	2.5	1.5	1.2	1.1	.84	.84
7	1.0	1.2	1.3	1.1	1.0	1.3	2.6	1.5	1.2	1.1	.84	.84
8	1.0	1.2	1.2	1.1	1.0	1.5	2.1	1.6	1.2	1.1	.84	1.2
9	1.0	1.2	1.2	1.1	1.0	1.4	1.1	1.6	1.1	1.1	.92	.88
10	1.0	1.2	1.1	1.1	1.0	1.3	1.1	1.7	1.1	1.2	.92	1.0
11	1.0	1.4	1.1	1.1	1.0	1.4	1.0	1.6	1.1	1.2	1.0	.96
12	1.0	1.2	1.1	1.1	1.0	1.5	1.0	1.4	1.0	1.3	.96	1.0
13	1.1	1.5	1.2	1.1	1.0	1.5	1.0	1.5	1.0	1.2	.92	1.2
14	1.1	1.6	1.1	1.1	1.0	1.6	1.0	1.3	1.0	1.2	.92	1.1
15	1.3	1.3	1.2	1.1	1.0	1.7	1.1	1.3	1.0	1.2	.96	1.0
16	1.3	1.3	1.2	1.1	1.0	1.8	1.1	1.6	1.0	1.3	.96	.96
17	1.3	1.2	1.2	1.1	1.1	1.6	1.1	1.9	1.0	1.2	.92	.96
18	1.3	1.2	1.3	1.0	1.3	1.5	1.2	1.7	1.0	1.3	.88	.96
19	1.3	1.2	1.3	1.0	1.7	1.7	1.2	1.4	1.0	1.1	.88	.92
20	1.3	1.2	1.2	1.0	1.6	1.6	1.2	1.4	1.0	1.1	.88	.92
21	1.3	1.2	1.2	1.0	1.3	1.6	1.2	1.4	1.0	1.0	.88	.92
22	1.3	1.2	1.2	1.0	1.2	1.7	1.2	1.3	1.0	1.0	.92	.92
23	1.2	1.2	1.3	1.0	1.2	2.0	1.2	1.3	1.0	1.1	.88	2.9
24	1.2	1.2	1.3	1.0	1.2	2.0	1.2	1.4	1.0	1.0	.88	.96
25	1.2	1.2	1.3	1.0	1.2	1.7	1.2	1.4	1.0	1.0	.88	.88
26	1.2	1.2	1.3	1.0	1.2	1.6	1.2	1.4	1.0	1.0	.88	.88
27	1.3	1.2	1.3	1.0	1.2	2.0	1.2	1.4	1.0	.92	.88	.80
28	1.3	1.2	1.3	1.0	1.3	1.6	1.2	1.6	1.0	.92	.92	.80
29	1.3	1.2	1.2	1.0	---	1.8	1.2	1.6	1.0	.84	.88	.80
30	1.3	1.2	1.2	1.1	---	1.8	1.2	1.7	1.0	.84	.88	.80
31	1.3	---	1.2	1.1	---	1.8	---	1.8	---	.84	.88	---
TOTAL	35.9	37.1	37.8	33.3	31.7	48.6	41.7	46.1	32.5	33.66	27.60	29.60
MEAN	1.16	1.24	1.22	1.07	1.13	1.57	1.39	1.49	1.08	1.09	.89	.99
MAX	1.3	1.6	1.3	1.2	1.7	2.0	2.6	1.9	1.4	1.3	1.0	2.9
MIN	1.0	1.2	1.1	1.0	1.0	1.2	1.0	1.2	1.0	.84	.84	.80
AC-FT	71	74	75	66	63	96	83	91	64	67	55	59

CAL YR 1980 TOTAL 3814.60 MEAN 10.4 MAX 100 MIN 1.0 AC-FT 7570
WTR YR 1981 TOTAL 435.56 MEAN 1.19 MAX 2.9 MIN .80 AC-FT 864

09175000 WEST NATURITA CREEK NEAR NORWOOD, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--December 1977 to September 1981 (discontinued).

WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	SPECIFIC CONDUCTANCE LAB (UMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (NTU)	OXYGEN, DISSOLVED (MG/L)	OXYGEN DEMAND, CHEMICAL (HIGH LEVEL) (MG/L)	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ML)	STREPTOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
OCT											
06...	1430	1.0	690	690	8.4	20.0	1.7	6.6	13	48	K36
NOV											
03...	1415	1.0	720	762	8.2	11.0	--	7.9	20	K2	K48
DEC											
01...	1400	1.2	730	771	8.4	7.0	--	8.9	17	K15	K10
JAN											
05...	1445	1.1	720	764	8.2	5.0	--	9.3	9	K10	K23
FEB											
02...	1510	1.0	790	781	8.3	1.0	--	10.4	6	K2	<2
MAR											
02...	1450	1.3	720	749	8.0	4.0	--	9.6	18	K7	K210
APR											
06...	1445	2.5	750	804	8.2	11.0	--	8.0	16	<2	K8
MAY											
04...	1405	1.3	760	794	8.3	17.0	--	7.0	51	K2	K6
JUN											
01...	1615	1.4	800	845	8.4	19.0	2.1	6.8	5	62	K48
JUL											
06...	1330	1.1	760	786	8.2	23.0	--	6.3	34	110	110
AUG											
03...	1445	.80	760	787	8.1	21.0	--	6.4	21	40	>320
31...	1400	.80	770	810	8.3	20.0	--	6.6	45	K36	K13

DATE	HARDNESS (MG/L AS CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	ALKALINITY LAB (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)
OCT											
06...	300	61	36	42	1.2	3.6	140	230	7.2	.3	5.7
NOV											
03...	300	69	32	47	1.2	2.8	160	230	6.9	.2	9.5
DEC											
01...	310	69	33	35	.9	2.8	160	230	7.0	.2	6.3
JAN											
05...	330	73	37	38	.9	2.5	--	240	7.0	.2	6.5
FEB											
02...	330	72	36	40	1.0	2.6	160	260	7.6	.2	6.6
MAR											
02...	340	79	35	33	.9	2.6	160	220	6.9	.1	7.2
APR											
06...	360	87	35	30	.7	2.6	180	240	7.0	.2	8.2
MAY											
04...	350	74	39	40	.9	3.2	150	280	8.0	.2	5.7
JUN											
01...	390	83	44	41	1.0	3.0	150	280	7.5	.2	6.3
JUL											
06...	330	66	41	42	1.0	3.1	120	290	7.7	.2	5.0
AUG											
03...	330	68	40	44	1.2	3.2	120	280	8.0	.5	5.8
31...	340	68	41	46	1.2	3.4	130	270	8.2	.2	5.1

09175000 WEST NATURITA CREEK NEAR NORWOOD, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)
OCT											
06...	482	471	.66	1.3	.00	.000	.43	.43	.43	.000	.010
NOV											
03...	518	494	.70	1.5	.30	.040	.44	.48	.78	.060	.030
DEC											
01...	512	480	.70	1.6	.00	.060	.68	.74	.74	.030	.020
JAN											
05...	518	488	.70	1.6	.37	.050	.56	.61	.98	.020	.020
FEB											
02...	533	521	.72	1.4	.00	.070	.55	.62	.62	.040	.020
MAR											
02...	486	481	.66	1.7	.00	.040	1.2	1.20	1.2	.050	.030
APR											
06...	530	518	.72	3.6	.02	.020	.77	.79	.81	.040	.020
MAY											
04...	549	540	.75	1.9	.02	.130	1.3	1.40	1.4	.030	.040
JUN											
01...	573	557	.78	2.2	.01	.300	.30	.60	.61	.030	.030
JUL											
06...	544	527	.74	1.6	.03	.080	.68	.76	.79	.010	.010
AUG											
03...	550	522	.75	1.1	.11	.190	.51	.70	.81	.010	.040
31...	565	521	.77	1.2	<.10	.210	.28	.49	--	.050	.020

DATE	BORON, DIS-SOLVED (UG/L AS B)	IRON, DIS-SOLVED (UG/L AS FE)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C)	CARBON, ORGANIC SUS-PENDED TOTAL (MG/L AS C)	PHYTO-PLANK-TON, TOTAL (CELLS PER ML)	PERI-PHYTON BIOMASS ASH WEIGHT G/SQ M	PERI-PHYTON BIOMASS TOTAL DRY WEIGHT G/SQ M	CHLOR-A PERI-PHYTON CHROMO-GRAPHIC FLUOROM (MG/M2)	CHLOR-B PERI-PHYTON CHROMO-GRAPHIC FLUOROM (MG/M2)	BIOMASS CHLORO-PHYLL RATIO PERI-PHYTON (UNITS)
OCT										
06...	50	25	10	.2	130	19.5	21.9	6.48	.440	370
NOV										
03...	60	30	5.6	.4	90	--	--	--	--	--
DEC										
01...	60	30	6.0	.3	--	--	--	--	--	--
JAN										
05...	40	20	11	--	520	7.80	8.74	4.21	.400	223
FEB										
02...	40	80	15	1.6	--	--	--	--	--	--
MAR										
02...	30	41	8.1	.3	130	--	--	--	--	--
APR										
06...	30	70	11	.3	280	9.45	10.5	3.04	10.8	345
MAY										
04...	50	40	9.0	--	180	--	--	--	--	--
JUN										
01...	50	31	9.5	--	150	11.4	13.1	4.47	.990	380
JUL										
06...	240	50	6.9	.2	--	--	--	--	--	--
AUG										
03...	50	43	6.0	.1	480	--	--	--	--	--
31...	50	24	8.1	<.1	360	5.59	6.69	12.2	2.24	90.2

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)
FEB				
02...	1510	1.0	3	.01
MAR				
02...	1450	1.3	13	.05
APR				
06...	1445	2.5	17	.12
MAY				
04...	1405	1.3	5	.02
JUN				
01...	1615	1.4	12	.05
AUG				
03...	1445	.80	5	.01
31...	1400	.80	5	.01

09175000 WEST NATURITA CREEK NEAR NORWOOD, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DISSOLVED (UG/L AS AS)	ARSENIC TOTAL IN BOTTOM MATERIAL (UG/G AS AS)	BARIUM, TOTAL RECOVERABLE (UG/L AS BA)	BARIUM, DISSOLVED (UG/L AS BA)	BARIUM, RECOV. FM BOTTOM MATERIAL (UG/G AS BA)	BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE)	BERYLLIUM, DISSOLVED (UG/L AS BE)	BERYLLIUM, RECOV. FM BOTTOM MATERIAL (UG/G)
OCT 06...	1430	0	1	1	1	100	90	200	0	<1	1
MAR 02...	1450	20	--	1	--	--	70	--	--	<1	--
JUN 01...	1615	0	2	2	10	100	70	100	0	<1	1
AUG 31...	1400	10	--	2	--	--	70	--	--	<1	--

DATE	CADMIUM TOTAL RECOVERABLE (UG/L AS CD)	CADMIUM DISSOLVED (UG/L AS CD)	CADMIUM RECOV. FM BOTTOM MATERIAL (UG/G AS CD)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	CHROMIUM, DISSOLVED (UG/L AS CR)	CHROMIUM, RECOV. FM BOTTOM MATERIAL (UG/G)	COBALT, TOTAL RECOVERABLE (UG/L AS CO)	COBALT, DISSOLVED (UG/L AS CO)	COBALT, RECOV. FM BOTTOM MATERIAL (UG/G AS CO)	COPPER, DISSOLVED (UG/L AS CU)	COPPER, RECOV. FM BOTTOM MATERIAL (UG/G AS CU)
OCT 06...	0	<1	1	10	0	10	0	<3	10	<10	27
MAR 02...	--	<1	--	--	0	--	--	<3	--	<10	--
JUN 01...	0	<1	2	0	10	2	1	<3	10	<10	13
AUG 31...	--	<1	--	--	0	--	--	<3	--	<10	--

DATE	LEAD, TOTAL RECOVERABLE (UG/L AS PB)	LEAD, DISSOLVED (UG/L AS PB)	LEAD, RECOV. FM BOTTOM MATERIAL (UG/G AS PB)	LITHIUM TOTAL RECOVERABLE (UG/L AS LI)	LITHIUM DISSOLVED (UG/L AS LI)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	MANGANESE, DISSOLVED (UG/L AS MN)	MANGANESE, RECOV. FM BOTTOM MATERIAL (UG/G)	MERCURY TOTAL RECOVERABLE (UG/L AS HG)	MERCURY DISSOLVED (UG/L AS HG)	MERCURY RECOV. FM BOTTOM MATERIAL (UG/G AS HG)
OCT 06...	0	<10	130	40	38	110	76	410	.0	.0	.03
MAR 02...	--	<10	--	--	28	--	120	--	--	.0	--
JUN 01...	2	<10	10	40	54	100	94	500	.1	.0	.05
AUG 31...	--	<10	--	--	42	--	54	--	--	.0	--

DATE	MOLYBDENUM, TOTAL RECOVERABLE (UG/L AS MO)	MOLYBDENUM, DISSOLVED (UG/L AS MO)	MOLYBDENUM, RECOV. FM BOTTOM MATERIAL (UG/G)	NICKEL, TOTAL RECOVERABLE (UG/L AS NI)	NICKEL, DISSOLVED (UG/L AS NI)	NICKEL, RECOV. FM BOTTOM MATERIAL (UG/G AS NI)	SELENIUM, TOTAL (UG/L AS SE)	SELENIUM, DISSOLVED (UG/L AS SE)	SELENIUM, TOTAL IN BOTTOM MATERIAL (UG/G)	STRONTIUM, DISSOLVED (UG/L AS SR)	VANADIUM, DISSOLVED (UG/L AS V)
OCT 06...	2	<10	13	2	3	10	0	0	0	840	<3.0
MAR 02...	--	<10	--	--	1	--	--	0	--	810	<3.0
JUN 01...	3	<10	0	3	3	10	0	0	0	1000	<6.0
AUG 31...	--	<10	--	--	1	--	--	0	--	950	<6.0

DATE	ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	ZINC, DISSOLVED (UG/L AS ZN)	ZINC, RECOV. FM BOTTOM MATERIAL (UG/G AS ZN)	GROSS ALPHA, DISSOLVED (PCI/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (PCI/L AS U-NAT)	GROSS ALPHA, DISSOLVED (UG/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT)	GROSS BETA, DISSOLVED (PCI/L AS CS-137)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137)	GROSS BETA, DISSOLVED (PCI/L AS SR/YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/YT-90)
OCT 06...	10	<3	220	4.8	.3	<7.0	<.4	5.7	.5	5.4	.5
MAR 02...	--	22	--	--	--	--	--	--	--	--	--
JUN 01...	40	54	60	6.6	.3	<9.7	<.4	<5.4	.4	<5.2	.4
AUG 31...	--	<3	--	--	--	--	--	--	--	--	--

09175000 WEST NATURITA CREEK NEAR NORWOOD, CO--Continued

PHYTOPLANKTON ANALYSES, OCTOBER 1980 TO SEPTEMBER 1981

DATE	OCT 6,80		NOV 3,80		DEC 1,80		JAN 5,81		MAR 2,81		APR 6,81	
TIME	1430		1415		1400		1445		1450		1445	
TOTAL CELLS/ML	130		90		77		520		130		280	
DIVERSITY: DIVISION	0.0		0.6		0.7		1.0		0.0		0.0	
.CLASS	0.0		0.6		0.7		1.0		0.0		0.0	
..ORDER	0.0		0.6		1.3		1.0		0.0		0.0	
...FAMILY	1.0		2.0		2.3		2.4		1.7		1.8	
....GENUS	1.0		2.0		2.3		2.5		1.7		1.8	
ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)												
.CHLOROPHYCEAE												
..VOLVOCALES												
...CHLAMYDOMONADACEAE												
....CHLAMYDOMONAS	--	-	--	-	13#	17	--	-	--	-	--	-
..ZYGNEMATALES												
...DESMIDIACEAE												
....CLOSTERIUM	--	-	--	-	--	-	--	-	--	-	--	-
CHRYSOPHYTA												
.BACILLARIOPHYCEAE												
..CENTRALES												
...COSCINODISCACEAE												
....CYCLOTELLA	--	-	--	-	13#	17	--	-	--	-	--	-
..PENNALES												
...ACHNANTHACEAE												
....ACHNANTHES	--	-	--	-	--	-	27	5	39#	30	--	-
....COCCONEIS	--	-	--	-	--	-	14	3	--	-	--	-
....RHOICOSPHENIA	--	-	--	-	--	-	--	-	--	-	--	-
...CYMBELLACEAE												
....CYMBELLA	--	-	--	-	--	-	--	-	--	-	--	-
....EPITHEMIA	--	-	--	-	--	-	--	-	--	-	--	-
...DIATOMACEAE												
....DIATOMA	51#	40	26#	29	13#	17	96#	18	13	10	--	-
...FRAGILARIACEAE												
....FRAGILARIA	--	-	--	-	--	-	--	-	13	10	--	-
....SYNEDRA	77#	60	--	-	--	-	27	5	--	-	13	5
...GOMPHONEMATACEAE												
....GOMPHONEMA	--	-	--	-	26#	33	--	-	--	-	13	5
...MERIDIONACEAE												
....MERIDION	--	-	--	-	--	-	--	-	--	-	--	-
...NAVICULACEAE												
....GYROSIGMA	--	-	--	-	--	-	14	3	--	-	--	-
....NAVICULA	--	-	26#	29	--	-	55	11	--	-	77#	27
...NITZSCHIACEAE												
....NITZSCHIA	--	-	26#	29	13#	17	55	11	64#	50	140#	50
...SURIRELLACEAE												
....SURIRELLA	--	-	--	-	--	-	14	3	--	-	39	14
.CHRYSOPHYCEAE												
..CHRYSOMONADALES												
...OCHROMONADACEAE												
....OCHROMONAS	--	-	--	-	--	-	--	-	--	-	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)												
.CYANOPHYCEAE												
..HORMOGONALES												
...OSCILLATORIACEAE												
....OSCILLATORIA	--	-	--	-	--	-	220#	42	--	-	--	-
EUGLENOPHYTA (EUGLENOIDS)												
.EUGLENOPHYCEAE												
..EUGLENALES												
...EUGLENACEAE												
....EUGLENA	--	-	13	14	--	-	--	-	--	-	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

09175000 WEST NATURITA CREEK NEAR NORWOOD, CO--Continued

PHYTOPLANKTON ANALYSES, OCTOBER 1980 TO SEPTEMBER 1981

DATE	MAY 4,81		JUN 1,81		JUN 1,81		AUG 3,81		AUG 3,81		AUG 3,81	
TIME	1405		1330		1615		1350		1400		1445	
TOTAL CELLS/ML	180		170		150		560		360		480	
DIVERSITY: DIVISION	0.4		0.0		0.0		1.1		0.8		0.9	
.CLASS	0.4		0.0		0.0		1.1		0.8		1.2	
..ORDER	0.4		0.0		0.0		1.1		0.8		1.2	
...FAMILY	2.7		1.3		1.7		1.9		1.1		2.5	
....GENUS	2.7		2.1		1.7		1.9		1.1		2.8	
ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)												
.CHLOROPHYCEAE												
..VOLVOCALES												
...CHLAMYDOMONADACEAE												
....CHLAMYDOMONAS	13	7	--	-	--	-	--	-	--	-	--	-
..ZYGNEMATALES												
...DESMIDIACEAE												
....CLOSTERIUM	--	-	--	-	--	-	14	2	--	-	--	-
CHRYSOPHYTA												
.BACILLARIOPHYCEAE												
..CENTRALES												
...COSCINODISCACEAE												
....CYCLOTELLA	--	-	--	-	--	-	--	-	--	-	--	-
..PENNALES												
...ACHNANTHACEAE												
....ACHNANTHES	13	7	13	8	13	8	--	-	--	-	14	3
....COCCONEIS	--	-	77#	46	--	-	55	10	--	-	140#	29
....RHOICOSPHENIA	--	-	13	8	--	-	--	-	28	8	14	3
...CYMBELLACEAE												
....CYMBELLA	--	-	--	-	--	-	28	5	--	-	--	-
....EPITHEMIA	--	-	--	-	--	-	--	-	--	-	14	3
...DIATOMACEAE												
....DIATOMA	26	14	--	-	--	-	--	-	28	8	42	9
...FRAGILARIACEAE												
....FRAGILARIA	--	-	13	8	--	-	--	-	--	-	--	-
....SYNEDRA	26	14	13	8	--	-	14	2	--	-	14	3
...GOMPHONEMATACEAE												
....GOMPHONEMA	26	14	39#	23	26#	17	--	-	28	8	14	3
...MERIDIONACEAE												
....MERIDION	--	-	--	-	--	-	--	-	--	-	14	3
...NAVICULACEAE												
....GYROSIGMA	--	-	--	-	--	-	--	-	--	-	--	-
....NAVICULA	26	14	--	-	39#	25	96#	17	--	-	--	-
...NITZSCHIACEAE												
....NITZSCHIA	51#	29	--	-	77#	50	28	5	--	-	42	9
...SURIRELLACEAE												
....SURIRELLA	--	-	--	-	--	-	--	-	--	-	--	-
.CHRYSOPHYCEAE												
..CHRYSOMONADALES												
...OCHROMONADACEAE												
....OCHROMONAS	--	-	--	-	--	-	--	-	--	-	28	6
CYANOPHYTA (BLUE-GREEN ALGAE)												
.CYANOPHYCEAE												
..HORMOGONALES												
...OSCILLATORIACEAE												
....OSCILLATORIA	--	-	--	-	--	-	330#	59	280#	77	140#	29
EUGLENOPHYTA (EUGLENOIDS)												
.EUGLENOPHYCEAE												
..EUGLENALES												
...EUGLENACEAE												
....EUGLENA	--	-	--	-	--	-	--	-	--	-	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

09175500 SAN MIGUEL RIVER AT NATURITA, CO

LOCATION.--Lat 38°13'04", long 108°33'57", in NE¼NW¼ sec.30, T.46 N., R.15 W., Montrose County, Hydrologic Unit 14030003, on left bank 20 ft (6 m) downstream from bridge on State Highway 97 in Naturita and 1.2 mi (1.9 km) downstream from Naturita Creek.

DRAINAGE AREA.--1,069 mi^2 (2,769 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1917 to September 1929, May 1940 to September 1981 (discontinued). Monthly discharge only for some periods, published in WSP 1313.

REVISED RECORDS.--WRD Colo. 1972: Drainage area. WDR CO-80-3: 1927(M).

GAGE.--Water-stage recorder. Datum of gage is 5,392.85 ft (1,643.74 m), National Geodetic Vertical Datum of 1929. Apr. 26, 1918, to Sept. 2, 1926, nonrecording gage, and Sept. 3, 1926, to Sept. 30, 1929, water-stage recorder, at same site at different datums. Oct. 1, 1940, to Dec. 9, 1941, nonrecording gage at present site and datum.

COOPERATION.--Records collected and computed by Colorado Division of Water Resources and reviewed by Geological Survey.

REMARKS.--Records good except those for winter period, which are poor. Natural flow of stream affected by storage reservoirs, diversions for irrigation of about 22,000 acres (89.0 km^2) above station and 4,000 acres (16.2 km^2) below, and return flow from irrigated areas.

AVERAGE DISCHARGE.--53 years (water years 1918-29, 1941-81), 329 ft^3/s (9.317 m^3/s), 238,400 acre-ft/yr (294 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,100 ft^3/s (201 m^3/s) Apr. 15, 1942, gage height, 9.80 ft (2.987 m), from rating curve extended above 3,800 ft^3/s (110 m^3/s); minimum daily, 1.6 ft^3/s (0.045 m^3/s) July 16, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,130 ft^3/s (32.0 m^3/s) at 0600 June 10, gage height, 4.09 ft (1.247 m), no peak above base of 1,800 ft^3/s (51 m^3/s); minimum daily, 14 ft^3/s (0.40 m^3/s) Oct. 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	31	94	86	82	79	72	70	271	401	211	85	79
2	24	94	80	86	66	70	72	280	381	289	72	89
3	21	93	89	96	59	75	88	362	465	244	54	62
4	17	93	85	96	83	76	94	344	457	190	52	57
5	17	93	85	99	80	73	79	247	461	173	40	66
6	19	91	93	101	80	76	77	227	566	139	40	77
7	19	91	96	93	79	73	93	198	720	112	31	113
8	17	91	89	80	75	76	104	176	878	91	24	99
9	16	89	77	70	77	70	103	133	914	93	22	101
10	16	89	66	68	79	69	121	110	920	183	16	129
11	14	89	70	72	51	79	176	97	890	206	47	172
12	15	89	88	77	73	75	219	99	830	238	96	183
13	24	94	94	86	88	73	203	86	680	437	85	227
14	22	106	101	86	77	75	232	83	566	449	72	188
15	57	97	89	76	82	70	309	79	389	602	68	171
16	110	80	97	86	76	66	441	82	316	630	83	159
17	101	72	96	106	76	66	516	96	323	530	91	139
18	96	66	91	88	75	65	477	75	340	473	85	121
19	96	73	91	77	73	66	377	64	309	369	68	115
20	94	66	88	76	75	70	316	73	340	289	59	106
21	94	70	85	73	64	75	188	96	340	238	46	94
22	101	72	85	69	40	75	161	79	344	203	61	82
23	97	76	93	76	29	70	150	69	309	196	68	96
24	93	69	77	85	29	77	159	62	268	208	50	75
25	89	45	80	79	25	79	178	68	235	183	49	82
26	93	46	89	69	28	82	200	73	222	190	55	72
27	103	75	83	69	30	93	196	80	241	265	44	60
28	99	93	83	83	68	83	193	165	244	193	60	55
29	91	94	80	80	---	75	196	250	232	148	55	56
30	93	96	75	70	---	75	230	277	188	110	42	41
31	94	---	70	85	---	77	---	348	---	101	55	---
TOTAL	1873	2486	2651	2539	1816	2296	6018	4749	13769	7983	1775	3166
MEAN	60.4	82.9	85.5	81.9	64.9	74.1	201	153	459	258	57.3	106
MAX	110	106	101	106	88	93	516	362	920	630	96	227
MIN	14	45	66	68	25	65	70	62	188	91	16	41
AC-FT	3720	4930	5260	5040	3600	4550	11940	9420	27310	15830	3520	6280

CAL YR 1980 TOTAL 140379 MEAN 384 MAX 2210 MIN 14 AC-FT 278400
WTR YR 1981 TOTAL 51121 MEAN 140 MAX 920 MIN 14 AC-FT 101400

09175500 SAN MIGUEL RIVER AT NATURITA, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--December 1977 to September 1981 (discontinued).

WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN DEMAND, CHEM-ICAL (HIGH LEVEL) (MG/L)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./100 ML)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
OCT											
07...	1800	18	1300	1420	8.2	18.0	1.4	7.5	8	44	K36
NOV											
03...	1555	70	700	760	8.3	9.0	--	9.5	11	K12	K16
DEC											
01...	1525	77	720	800	8.3	5.0	--	10.2	8	K16	K56
JAN											
06...	1630	106	550	644	8.2	1.0	--	11.6	9	K4	66
FEB											
02...	1630	83	730	815	8.3	1.0	--	11.4	2	<2	K5
MAR											
03...	1440	63	720	769	8.1	6.0	--	10.0	14	30	120
APR											
06...	1645	85	680	711	8.5	13.5	--	8.7	11	K2	64
MAY											
04...	1635	306	380	348	8.0	16.0	--	8.1	47	38	84
JUN											
02...	1430	337	360	360	8.1	19.0	14	7.6	0	46	180
JUL											
06...	2000	104	400	401	7.7	25.0	--	6.8	23	K490	280
AUG											
03...	1710	61	610	608	7.8	27.0	--	6.6	10	K5	>800
SEP											
01...	1120	95	580	599	7.9	18.0	--	7.8	32	100	460

DATE	HARD-NESS (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)
OCT											
07...	740	170	76	70	1.2	4.1	170	670	12	.7	10
NOV											
03...	350	90	31	39	.9	2.1	120	280	11	.3	9.2
DEC											
01...	330	86	28	29	.7	1.8	130	280	7.2	.3	9.0
JAN											
06...	280	79	21	23	.6	1.4	110	220	7.7	.3	8.2
FEB											
02...	360	94	31	33	.8	1.7	140	290	7.7	.3	8.9
MAR											
03...	350	90	29	32	.8	1.9	130	250	8.1	.3	8.5
APR											
06...	310	84	24	26	.6	2.0	130	220	6.8	.3	8.0
MAY											
04...	160	47	9.3	9.0	.3	1.5	84	88	2.2	.2	7.5
JUN											
02...	170	52	9.1	8.9	.3	1.2	79	94	1.6	.2	7.3
JUL											
06...	190	58	11	10	.3	1.6	76	120	2.3	.2	7.7
AUG											
03...	300	84	21	19	.5	1.8	93	230	3.2	.5	8.8
SEP											
01...	280	81	18	15	.4	2.2	120	180	3.2	.2	8.7

09175500 SAN MIGUEL RIVER AT NATURITA, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)
OCT 07...	1170	1120	1.5	59.1	.00	.000	.43	.43	.43	.000
NOV 03...	522	535	.71	99.2	.15	.060	.94	1.00	1.2	.040
DEC 01...	540	520	.73	113	.15	.030	.35	.38	.53	.020
JAN 06...	454	427	.62	130	.14	.070	.28	.35	.49	.010
FEB 02...	563	551	.79	131	.08	.090	.30	.39	.47	.030
MAR 03...	513	499	.70	115	.00	.040	.27	.31	.31	.040
APR 06...	468	449	.64	107	.02	.050	.41	.46	.48	.030
MAY 04...	229	215	.31	189	.09	.150	1.5	1.60	1.7	.070
JUN 02...	221	223	.30	201	.05	.280	.12	.40	.45	.030
JUL 06...	259	257	.35	72.7	.04	.100	.61	.71	.75	.020
AUG 03...	422	424	.57	69.5	.11	.160	.18	.34	.45	.010
SEP 01...	399	382	.54	103	.12	.200	.29	.49	.61	.070

DATE	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	BORON, DIS-SOLVED (UG/L AS B)	IRON, DIS-SOLVED (UG/L AS FE)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C)	CARBON, ORGANIC SUS-PENDED TOTAL (MG/L AS C)	PHYTO-PLANK-TON, TOTAL (CELLS PER ML)	CHLOR-A PERI-PHYTON CHROMO-GRAPHIC FLUOROM (MG/M2)	CHLOR-B PERI-PHYTON CHROMO-GRAPHIC FLUOROM (MG/M2)	PERI-PHYTON BIOMASS ASH WEIGHT G/SQ M	PERI-PHYTON BIOMASS TOTAL DRY WEIGHT G/SQ M
OCT 07...	.010	130	17	21	.2	90	7.26	.270	--	--
NOV 03...	.020	70	20	4.4	.5	360	--	--	--	--
DEC 01...	.030	80	20	3.4	.3	--	--	--	--	--
JAN 06...	.010	60	30	5.8	--	1700	2.87	.080	10.3	10.9
FEB 02...	.010	60	20	15	.7	--	--	--	--	--
MAR 03...	.020	50	17	9.2	1.1	190	--	--	--	--
APR 06...	.020	40	10	8.0	.3	--	--	--	--	--
MAY 04...	.040	20	60	9.0	.5	730	--	--	--	--
JUN 02...	.030	20	26	3.5	--	1700	--	--	--	--
JUL 06...	.010	220	20	3.3	--	240	1.53	.140	63.4	65.0
AUG 03...	.030	50	19	3.5	.2	710	--	--	--	--
SEP 01...	.030	30	14	2.2	.1	2400	3.01	.280	13.2	14.2

09175500 SAN MIGUEL RIVER AT NATURITA, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	ARSENIC TOTAL IN BOT- TOM MA- TERIAL (UG/G AS AS)	BARIUM, TOTAL RECOV- ERABLE (UG/L AS BA)	BARIUM, DIS- SOLVED (UG/L AS BA)	BARIUM, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS BA)	BERYL- LIUM, TOTAL RECOV- ERABLE (UG/L AS BE)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	BERYL- LIUM, RECOV. FM BOT- TOM MA- TERIAL (UG/G)
OCT											
07...	1800	0	1	5	1	200	80	250	0	<1	1
MAR											
03...	1440	20	--	1	--	--	60	--	--	<1	--
JUN											
02...	1430	0	3	1	10	0	50	0	0	<1	0
SEP											
01...	1120	20	--	2	--	--	70	--	--	<1	--

DATE	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CADMIUM RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	CHRO- MIUM, RECOV. FM BOT- TOM MA- TERIAL (UG/G)	COBALT, TOTAL RECOV- ERABLE (UG/L AS CO)	COBALT, DIS- SOLVED (UG/L AS CO)	COBALT, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CO)	COPPER, DIS- SOLVED (UG/L AS CU)	COPPER, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CU)
OCT											
07...	0	<1	1	0	10	14	0	<3	20	<10	14
MAR											
03...	--	<1	--	--	0	--	--	<3	--	<10	--
JUN											
02...	1	<1	1	0	10	2	0	<3	0	<10	13
SEP											
01...	--	<1	--	--	0	--	--	<3	--	<10	--

DATE	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	LEAD, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS PB)	LITHIUM TOTAL RECOV- ERABLE (UG/L AS LI)	LITHIUM DIS- SOLVED (UG/L AS LI)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MANGA- NESE, RECOV. FM BOT- TOM MA- TERIAL (UG/G)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY DIS- SOLVED (UG/L AS HG)	MERCURY RECOV. FM BOT- TOM MA- TERIAL (UG/G AS HG)
OCT											
07...	3	<10	20	90	100	40	21	750	.0	.0	.04
MAR											
03...	--	<10	--	--	33	--	31	--	--	.0	--
JUN											
02...	13	<10	100	10	23	70	18	210	.2	.0	.04
SEP											
01...	--	<10	--	--	28	--	9	--	--	.0	--

DATE	MOLYB- DENUM, TOTAL RECOV- ERABLE (UG/L AS MO)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	MOLYB- DENUM, RECOV. FM BOT- TOM MA- TERIAL (UG/G)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	NICKEL, DIS- SOLVED (UG/L AS NI)	NICKEL, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS NI)	SELE- NIUM, TOTAL (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SELE- NIUM, TOTAL IN BOT- TOM MA- TERIAL (UG/G)	STRON- TIUM, DIS- SOLVED (UG/L AS SR)	VANA- DIUM, DIS- SOLVED (UG/L AS V)
OCT											
07...	5	<10	7	2	1	20	1	1	0	3300	<3.0
MAR											
03...	--	<10	--	--	0	--	--	1	--	1200	<6.0
JUN											
02...	4	<10	0	3	2	10	1	1	0	580	<6.0
SEP											
01...	--	<10	--	--	1	--	--	0	--	1100	<6.0

DATE	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)	ZINC, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS ZN)	GROSS ALPHA, DIS- SOLVED (PCI/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (PCI/L AS U-NAT)	GROSS ALPHA, DIS- SOLVED (UG/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT)	GROSS BETA, DIS- SOLVED (PCI/L AS CS-137)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137)	GROSS BETA, DIS- SOLVED (PCI/L AS SR/ YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/ YT-90)
OCT											
07...	20	5	120	<12	<.3	<17	<.4	<6.6	.5	<6.3	.5
MAR											
03...	--	10	--	--	--	--	--	--	--	--	--
JUN											
02...	90	4	85	3.7	1.4	<5.4	2.1	<2.3	2.0	<2.2	1.9
SEP											
01...	--	<3	--	--	--	--	--	--	--	--	--

09175500 SAN MIGUEL RIVER AT NATURITA, CO--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT					
07...	1800	18	4	.20	--
NOV					
03...	1555	70	4	.76	--
DEC					
01...	1525	77	7	1.5	--
JAN					
06...	1630	106	26	7.4	--
FEB					
02...	1630	83	10	2.2	--
MAR					
03...	1440	83	12	2.7	--
APR					
06...	1645	85	12	2.8	--
MAY					
04...	1635	306	50	41	--
JUN					
02...	1430	337	38	35	--
AUG					
03...	1710	61	3	.49	--
SEP					
01...	1120	95	57	15	93

09175500 SAN MIGUEL RIVER AT NATURITA, CO--Continued
PHYTOPLANKTON ANALYSES, OCTOBER 1980 TO AUGUST 1981

DATE TIME	OCT 7,80 1800	NOV 3,80 1555	DEC 1,80 1525	JAN 6,81 1630	MAR 3,81 1440	APR 6,81 1645
TOTAL CELLS/ML	90	360	660	1700	190	610
DIVERSITY: DIVISION	1.1	0.0	1.0	0.0	0.0	0.9
.CLASS	1.1	0.0	1.0	0.0	0.0	0.9
..ORDER	1.1	0.0	1.0	0.0	0.0	0.9
...FAMILY	2.2	1.3	1.9	2.4	2.0	1.5
....GENUS	2.2	1.4	1.9	2.4	2.0	1.5

ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)												
.CHLOROPHYCEAE												
..CHLOROCOCCALES												
...MICRACTINIACEAE												
....MICRACTINIUM	--	-	--	-	--	-	--	-	--	-	--	-
...OOCYSTACEAE												
....ANKISTRODESMUS	--	-	--	-	--	-	--	-	--	-	--	-
....DICTYOSPHAERIUM	--	-	--	-	--	-	--	-	--	-	--	-
...SCENEDESMACEAE												
....SCENEDESMUS	--	-	--	-	--	-	--	-	--	-	--	-
..VOLVOCALES												
...CHLAMYDOMONADACEAE												
....CHLAMYDOMONAS	13	14	--	-	--	-	--	-	--	-	--	-
..ZYGNEMATALES												
...DESMIDIACEAE												
....COSMARIUM	--	-	--	-	--	-	--	-	--	-	--	-
CHRYSOPHYTA												
.BACILLARIOPHYCEAE												
..CENTRALES												
...COSCINODISCACEAE												
....CYCLOTELLA	--	-	--	-	--	-	--	-	--	-	--	-
....MELOSIRA	--	-	--	-	--	-	--	-	--	-	--	-
..PENNALES												
...ACHNANTHACEAE												
....ACHNANTHES	13	14	26	7	64	10	120	7	26	13	13	2
....RHOICOSPHENIA	--	-	13	4	--	-	--	-	--	-	--	-
...CYMBELLACEAE												
....CYMBELLA	--	-	--	-	39	6	540#	32	26	13	--	-
....EPITHEMIA	--	-	--	-	--	-	--	-	--	-	--	-
...DIATOMACEAE												
....DIATOMA	--	-	13	4	--	-	--	-	--	-	--	-
...FRAGILARIACEAE												
....FRAGILARIA	--	-	--	-	--	-	--	-	--	-	52	9
....SYNEDRA	--	-	26	7	39	6	100	6	--	-	--	-
...GOMPHONEMATACEAE												
....GOMPHONEMA	--	-	--	-	--	-	120	7	13	7	--	-
...NAVICULACEAE												
....NAVICULA	26#	29	13	4	51	8	160	10	39#	20	39	6
...NITZSCHIACEAE												
....NITZSCHIA	26#	29	270#	75	77	12	570#	33	90#	47	90	15
...SURIRELLACEAE												
....SURIRELLA	--	-	--	-	--	-	89	5	--	-	--	-
CRYPTOPHYTA (CRYPTOMONADS)												
.CRYPTOPHYCEAE												
..CRYPTOMONADALES												
...CRYPTOMONADACEAE												
....CRYPTOMONAS	13	14	--	-	--	-	--	-	--	-	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)												
.CYANOPHYCEAE												
..CHROOCOCCALES												
...CHROOCOCCACEAE												
....AGMENELLUM	--	-	--	-	--	-	--	-	--	-	410#	68
....ANACYSTIS	--	-	--	-	--	-	--	-	--	-	--	-
..HORMOGONALES												
...OSCILLATORIACEAE												
....OSCILLATORIA	--	-	--	-	390#	59	--	-	--	-	--	-
EUGLENOPHYTA (EUGLENOIDS)												
.EUGLENOPHYCEAE												
..EUGLENALES												
...EUGLENACEAE												
....EUGLENA	--	-	--	-	--	-	--	-	--	-	--	-
....TRACHELOMONAS	--	-	--	-	--	-	--	-	--	-	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

09175500 SAN MIGUEL RIVER AT NATURITA, CO--Continued

PHYTOPLANKTON ANALYSES, OCTOBER 1980 TO AUGUST 1981

DATE TIME	MAY 4,81 1635	JUN 2,81 1430	JUN 2,81 2000	AUG 3,81 1120	AUG 3,81 1710
TOTAL CELLS/ML	730	1700	240	2400	710
DIVERSITY: DIVISION	1.1	0.6	0.5	1.4	1.4
.CLASS	1.1	0.6	0.5	1.4	1.4
..ORDER	1.2	0.6	1.0	1.8	2.0
...FAMILY	2.3	0.9	2.4	3.2	3.1
....GENUS	2.3	0.9	2.8	3.3	3.2

ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
CHLOROPHYTA (GREEN ALGAE)										
.CHLOROPHYCEAE										
..CHLOROCOCCALES										
...MICRACTINIACEAE										
....MICRACTINIUM	--	-	--	-	--	-	300	13	140#	20
...OOCYSTACEAE										
....ANKISTRODESMUS	--	-	--	-	--	-	18	1	--	-
....DICTYOSPHAERIUM	--	-	--	-	--	-	53	2	28	4
...SCENEDESMACEAE										
....SCENEDESMUS	13	2	--	-	--	-	70	3	--	-
..VOLVOCALES										
...CHLAMYDOMONADACEAE										
....CHLAMYDOMONAS	--	-	--	-	--	-	35	1	130#	18
..ZYGNEMATALES										
...DESMIDIACEAE										
....COSMARIUM	--	-	--	-	--	-	18	1	--	-
CHRYSOPHYTA										
.BACILLARIOPHYCEAE										
..CENTRALES										
...COSCINODISCACEAE										
....CYCLOTELLA	13	2	--	-	26	11	88	4	28	4
....MELOSIRA	--	-	--	-	--	-	35	1	--	-
..PENNALES										
...ACHNANTHACEAE										
....ACHNANTHES	--	-	26	1	--	-	88	4	--	-
....RHOICOSPHENIA	--	-	--	-	--	-	18	1	--	-
...CYMBELLACEAE										
....CYMBELLA	100	14	130	7	26	11	35	1	42	6
....EPITHEMIA	--	-	--	-	--	-	--	-	14	2
...DIATOMACEAE										
....DIATOMA	--	-	--	-	--	-	70	3	--	-
...FRAGILARIACEAE										
....FRAGILARIA	--	-	--	-	26	11	--	-	--	-
....SYNEDRA	39	5	13	1	77#	32	160	7	110#	16
...GOMPHONEMATACEAE										
....GOMPHONEMA	13	2	--	-	13	5	110	4	70	10
...NAVICULACEAE										
....NAVICULA	39	5	51	3	13	5	70	3	56	8
...NITZSCHIACEAE										
....NITZSCHIA	90	12	26	1	39#	16	820#	35	28	4
...SURIRELLACEAE										
....SURIRELLA	64	9	13	1	--	-	18	1	--	-
CRYPTOPHYTA (CRYPTOMONADS)										
.CRYPTOPHYCEAE										
..CRYPTOMONADALES										
...CRYPTOMONADACEAE										
....CRYPTOMONAS	--	-	--	-	--	-	--	-	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)										
.CYANOPHYCEAE										
..CHROOCOCCALES										
...CHROOCOCCACEAE										
....AGMENELLUM	--	-	--	-	--	-	--	-	--	-
....ANACYSTIS	--	-	--	-	26	11	330	14	70	10
..HORMOGONALES										
...OSCILLATORIACEAE										
....OSCILLATORIA	360#	49	1500#	85	--	-	--	-	--	-
EUGLENOPHYTA (EUGLENOIDS)										
.EUGLENOPHYCEAE										
..EUGLENALES										
...EUGLENACEAE										
....EUGLENA	--	-	--	-	--	-	18	1	--	-
....TRACHELOMONAS	--	-	--	-	--	-	18	1	--	-

NOTE: # - DOMINANT ORGANISM: EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED: LESS THAN 1/2%

09177000 SAN MIGUEL RIVER AT URAVAN, CO

LOCATION.--Lat 38°21'26", long 108°42'44", in SW¼NE¼ sec.2, T.47 N., R.17 W., Montrose County, Hydrologic Unit 14030003, on right bank 20 ft (6 m) downstream from bridge on State Highway 141, 400 ft (120 m) downstream from Tabeguache Creek, and 1.5 mi (2.4 km) southeast of Uravan.

DRAINAGE AREA.--1,499 mi^2 (3,882 km^2).

PERIOD OF RECORD.--August 1954 to September 1962, October 1973 to current year.

REVISED RECORDS.--WRD Colo. 1974: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 5,000 ft (1,524 m), from topographic map. Prior to Sept. 3, 1959, at site 0.5 mi (0.8 km) downstream at different datum.

REMARKS.--Records good except those for winter period, which are fair. Natural flow of stream affected by storage reservoirs, diversions for irrigation of about 28,000 acres (113 km^2) above station, and return flow from irrigated areas. Several observations of specific conductance and water temperature were obtained and are published elsewhere in this report.

AVERAGE DISCHARGE.--16 years (water years 1955-62, 1974-81), 327 ft^3/s (9.261 m^3/s), 236,900 acre-ft/yr (292 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,690 ft^3/s (189 m^3/s) Apr. 19, 1958, gage height, 11.75 ft (3.581 m), site and datum then in use; minimum daily, 9.4 ft^3/s (0.27 m^3/s) Aug. 10, 1977.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Sept. 6, 1970, reached a stage of 12.6 ft (3.84 m), from floodmarks, discharge, 8,910 ft^3/s (252 m^3/s), by slope-area measurement at site 5.5 mi (8.8 km) downstream.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,780 ft^3/s (50.4 m^3/s) Sept. 8; gage height, 6.35 ft (1.935 m), no peak above base of 2,000 ft^3/s (57 m^3/s); minimum daily, 39 ft^3/s (1.10 m^3/s) Oct. 12, Feb. 25.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	70	108	101	77	65	74	68	387	474	247	122	118
2	61	104	85	84	54	80	73	408	440	314	112	120
3	50	104	99	88	40	84	85	474	518	289	88	108
4	46	103	95	85	56	87	106	466	530	238	74	92
5	44	103	95	90	60	82	88	362	506	210	63	112
6	45	101	101	85	61	79	76	328	566	192	59	144
7	45	103	110	80	60	84	94	286	665	157	55	204
8	41	103	104	75	59	80	114	256	775	130	47	290
9	43	101	87	65	76	80	116	215	800	132	47	144
10	40	99	70	61	80	71	132	180	805	182	48	212
11	40	95	60	60	49	79	195	163	785	271	102	218
12	39	97	79	70	49	85	256	159	745	301	212	262
13	60	103	94	65	77	77	247	148	634	498	182	247
14	61	114	103	64	70	79	277	132	546	458	163	229
15	90	112	84	61	84	79	348	130	436	598	128	200
16	152	94	90	61	80	68	470	146	362	582	235	185
17	134	77	92	75	80	66	534	168	345	643	195	172
18	122	74	92	65	82	67	522	150	362	498	148	155
19	118	80	94	63	80	61	478	128	345	401	122	146
20	114	79	88	63	80	67	436	130	348	328	112	130
21	114	79	87	60	77	76	301	163	366	280	101	132
22	116	73	90	61	56	76	277	148	366	241	103	110
23	110	90	90	64	41	70	274	138	348	223	126	183
24	104	94	85	70	40	73	289	124	304	250	95	315
25	101	61	77	65	39	79	317	122	277	215	79	114
26	103	50	94	60	40	82	342	128	262	208	87	116
27	130	71	87	55	44	92	342	130	277	283	74	92
28	114	84	88	79	67	94	328	198	283	229	80	85
29	108	95	87	75	---	79	324	314	274	182	95	84
30	104	104	76	71	---	71	352	352	229	142	87	76
31	108	---	68	66	---	85	---	401	---	136	97	---
TOTAL	2627	2755	2752	2163	1746	2406	7861	7034	13973	9058	3338	4795
MEAN	84.7	91.8	88.8	69.8	62.4	77.6	262	227	466	292	108	160
MAX	152	114	110	90	84	94	534	474	805	643	235	315
MIN	39	50	60	55	39	61	68	122	229	130	47	76
AC-FT	5210	5460	5460	4290	3460	4770	15590	13950	27720	17970	6620	9510

CAL YR 1980 TOTAL 162477 MEAN 444 MAX 2410 MIN 39 AC-FT 322300
WTR YR 1981 TOTAL 60508 MEAN 166 MAX 805 MIN 39 AC-FT 120000

09177100 SAN MIGUEL RIVER BELOW URAVAN, CO

LOCATION.--Lat 38°23'08", long 108°45'28", in SW¼NW¼ sec.28, T.48 N., R.17 W., Montrose County, Hydrologic Unit 14030003, at county bridge 75 ft (23 m) downstream from Atkinson Creek and 2.0 mi (3.2 km) northwest of Uravan.

DRAINAGE AREA.--1,549 mi^2 (4,012 km^2).

PERIOD OF RECORD.--August 1969 to September 1981 (discontinued).

REMARKS.--Field data collected prior to 1974 water year are available in district office.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN DEMAND, CHEM-ICAL (HIGH LEVEL) (MG/L)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./100 ML)	HARD-NESS (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)
OCT												
07...	1230	22	--	1840	7.3	18.0	7.8	6	K9	950	200	110
NOV												
04...	1115	53	1280	1390	7.3	7.0	9.8	6	--	--	--	--
DEC												
02...	1030	44	1250	1410	7.8	2.0	11.4	13	140	--	--	--
JAN												
06...	0845	57	930	1120	7.5	1.0	11.9	8	K17	--	--	--
FEB												
03...	0900	26	1250	1650	8.1	.0	12.1	16	K4	--	--	--
MAR												
03...	1210	43	1400	1540	7.9	7.0	10.2	17	42	520	110	60
APR												
07...	1040	45	900	977	7.8	11.0	9.2	19	K2	--	--	--
MAY												
05...	1225	315	400	541	7.9	14.0	8.3	45	K370	--	--	--
JUN												
02...	1200	488	480	503	8.0	19.0	7.6	0	--	220	62	17
JUL												
06...	1530	200	590	608	8.2	28.0	6.2	22	K10	--	--	--
AUG												
04...	1020	78	1000	1040	8.1	22.0	7.0	18	K10	--	--	--
31...	1730	96	1210	1380	7.5	24.0	6.8	58	K740	730	170	74

DATE	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)
OCT												
07...	150	2.1	9.3	150	950	130	4.1	1750	1640	2.3	108	1.7
NOV												
04...	--	--	--	140	--	--	--	988	--	1.3	142	.00
DEC												
02...	--	--	--	--	--	--	--	975	--	1.3	116	2.5
JAN												
06...	--	--	--	--	--	--	--	762	--	1.0	117	1.9
FEB												
03...	--	--	--	--	--	--	--	1170	--	1.5	82.1	1.0
MAR												
03...	130	2.5	7.3	150	490	140	6.7	1050	1030	1.4	122	1.3
APR												
07...	--	--	--	--	--	--	--	650	--	.88	79.0	.63
MAY												
05...	--	--	--	--	--	--	--	285	--	.39	242	.13
JUN												
02...	16	.5	1.8	93	160	3.7	8.9	329	325	.45	433	.15
JUL												
06...	--	--	--	--	--	--	--	406	--	.55	219	.30
AUG												
04...	--	--	--	--	--	--	--	784	--	1.0	165	.41
31...	54	1.0	5.7	160	630	10	12	1110	1050	1.5	288	.46

09177100 SAN MIGUEL RIVER BELOW URAVAN, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	NICKEL, DISSOLVED (UG/L AS NI)	SILVER, DISSOLVED (UG/L AS AG)	ZINC, DISSOLVED (UG/L AS ZN)	CARBON, ORGANIC DISSOLVED (MG/L AS C)	CYANIDE TOTAL (MG/L AS CN)	CYANIDE DISSOLVED (MG/L AS CN)
OCT											
07...	3.80	.90	4.70	6.4	.010	11	0	30	9.0	--	2.0
NOV											
04...	--	--	--	--	--	10	0	20	--	--	--
DEC											
02...	4.20	.00	4.20	6.7	.030	8	0	50	4.9	--	.00
JAN											
06...	3.80	.30	4.10	6.0	.010	7	0	60	5.2	--	.00
FEB											
03...	11.0	1.0	12.0	13	.040	12	0	30	.7	--	--
MAR											
03...	4.60	.30	4.90	6.2	.050	15	0	10	--	.00	--
APR											
07...	2.00	1.2	3.20	3.8	.040	9	0	10	6.9	.00	1.0
MAY											
05...	.590	.61	1.20	1.3	.050	1	0	10	7.5	.00	.00
JUN											
02...	.620	.30	.92	1.1	.050	3	1	<3	6.1	--	.00
JUL											
06...	.610	.39	1.00	1.3	.030	3	0	10	3.9	--	.00
AUG											
04...	.140	1.7	1.80	2.2	.020	5	0	20	4.2	.01	--
31...	1.10	1.6	2.70	3.2	.220	5	0	<3	6.6	.00	--

09179200 SALT CREEK NEAR GATEWAY, CO

LOCATION.--Lat 38°31'59", long 108°58'13", in sec.3, T.49 N., R.19 W., Mesa County, Hydrologic Unit 14030004, on left bank 3.5 mi (5.6 km) upstream from mouth and 10 mi (16 km) south of Gateway.

DRAINAGE AREA.--31.2 mi^2 (80.8 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--September 1979 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 5,220 ft (1,591 m), from topographic map.

REMARKS.--Records fair except for periods of no gage-height record, which are poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,670 ft^3/s (75.6 m^3/s) July 12, 1981, gage height, 13.34 ft (4.066 m), result of slope-area measurement of peak flow; minium daily, 0.02 ft^3/s (0.001 m^3/s) Oct. 7, 1979.

EXTREMES FOR PERIOD SEPTEMBER 1-30, 1979.--Maximum discharge, 0.77 ft^3/s (0.022 m^3/s) at 1600 Sept. 10, gage height, 1.79 ft (0.546 m); minimum daily, 0.09 ft^3/s (0.003 m^3/s) Sept. 1-9.

EXTREMES FOR 1980.--Maximum discharge, 25 ft^3/s (0.71 m^3/s) at 1800 May 5, gage height, 2.61 ft (0.796 m); minimum daily, 0.02 ft^3/s (0.001 m^3/s).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,670 ft^3/s (75.6 m^3/s) July 12, gage height, 13.34 ft (4.066 m), result of slope-area measurement of peak flow; minimum daily, 0.07 ft^3/s (0.002 m^3/s) Sept. 2-4, 16, 22.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1												.09
2												.09
3											a0.08	.09
4												.09
5												.09
6												.09
7									a0.40			.09
8											a0.06	.09
9												.09
10												.12
11								a0.43				.41
12												.12
13											a0.10	.12
14									a0.12			.12
15												.17
16												.22
17												.22
18												.22
19										a0.11		.31
20												.22
21												.22
22												.22
23							a0.71					.22
24												.22
25												.22
26												.31
27												.22
28												.12
29												.10
30											a0.09	.10
31												---
TOTAL												5.01
MEAN												.17
MAX												.41
MIN												.09
AC-FT												9.9

a RESULT OF DISCHARGE MEASUREMENT.

09179200 SALT CREEK NEAR GATEWAY, CO--Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.09	.09	.10	.21	.28	.09	.11	3.5	.26	.26	.12	.14
2	.08	.06	.08	.21	.20	.09	.12	4.1	.26	.22	.12	.14
3	.04	.06	.09	.21	.18	.09	.13	5.3	.26	.17	.12	.14
4	.08	.06	.10	.21	.19	.08	.16	5.0	.26	.17	.12	.22
5	.09	.06	.12	.21	.11	.11	.15	8.3	.26	.17	.12	.17
6	.03	.07	.12	.21	.11	.09	.18	5.9	.22	.22	.12	.13
7	.02	.07	.12	.27	.17	.09	.24	7.2	.26	.22	.12	.13
8	.03	.07	.13	.25	.11	.09	.48	4.9	.22	.17	.12	.13
9	.04	.06	.15	.22	.11	.11	.42	3.5	.26	.17	.12	.13
10	.07	.08	.15	.25	.17	.15	.34	3.0	.22	.17	.12	.13
11	.08	.08	.15	.28	.11	.12	.34	3.1	.22	.17	.12	.12
12	.08	.10	.15	.24	.10	.11	.35	3.6	.26	.22	.17	.10
13	.08	.15	.15	.24	.10	.11	.40	2.4	.26	.22	.17	.10
14	.06	.10	.18	.24	.11	.11	.58	1.7	.22	.17	.17	.12
15	.07	.20	.22	.23	.10	.11	.40	1.2	.26	.17	.11	.30
16	.07	.11	.17	.23	.09	.11	.40	.85	.26	.17	.12	.26
17	.07	.22	.20	.25	.09	.12	.40	.62	.26	.17	.12	.20
18	.08	.22	.17	.25	.10	.12	.50	.64	.22	.17	.11	.20
19	.07	.36	.17	.25	.10	.12	.52	.68	.22	.17	.11	.20
20	.06	.17	.22	.24	.09	.12	.60	.53	.22	.17	.11	.17
21	.06	.04	.20	.25	.09	.12	1.4	.50	.17	.17	.12	.15
22	.06	.11	.18	.27	.09	.22	7.4	.50	.22	.17	.12	.14
23	.06	.14	.18	.24	.10	.17	7.4	.62	.17	.17	.22	.14
24	.07	.12	.18	.24	.10	.22	5.3	.50	.17	.17	.19	.14
25	.06	.11	.18	.24	.10	.46	6.5	.48	.17	.17	.14	.14
26	.06	.09	.18	.30	.10	.17	7.4	.52	.17	.17	.14	.16
27	.08	.11	.19	.30	.09	.11	6.8	.60	.22	.12	.14	.20
28	.07	.10	.24	.31	.09	.12	5.6	.52	.22	.12	.14	.24
29	.07	.09	.20	.38	.09	.14	5.6	.31	.22	.17	.20	.20
30	.07	.09	.19	.37	---	.13	4.1	.31	.22	.17	.16	.19
31	.07	---	.20	.32	---	.11	---	.26	---	.12	.14	---
TOTAL	2.02	3.39	5.06	7.92	3.47	4.11	64.32	71.14	6.83	5.46	4.22	4.93
MEAN	.065	.11	.16	.26	.12	.13	2.14	2.29	.23	.18	.14	.16
MAX	.09	.36	.24	.38	.28	.46	7.4	8.3	.26	.26	.22	.30
MIN	.02	.04	.08	.21	.09	.08	.11	.26	.17	.12	.11	.10
AC-FT	4.0	6.7	10	16	6.9	8.2	128	141	14	11	8.4	9.8

WTR YR 1980 TOTAL 182.87 MEAN .50 MAX 8.3 MIN .02 AC-FT 363

NOTE.--NO GAGE-HEIGHT RECORD OCT. 8 TO NOV. 16, DEC. 25 TO FEB. 5, AUG. 24 TO SEPT. 30.

09179200 SALT CREEK NEAR GATEWAY, CO--Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.18	.17	.26	.12	.11	.17	.13	.17	.22	.17	.17	.09
2	.12	.17	.22	.12	.11	.17	.12	.17	.17	.17	.11	.07
3	.10	.17	.22	.12	.11	.17	.13	.22	.36	.10	.10	.07
4	.12	.17	.22	.12	.11	.12	.13	.17	.22	.09	.10	.07
5	.12	.17	.26	.17	.10	.12	.11	.17	.17	.09	.11	.12
6	.12	.17	.26	.12	.12	.12	.13	.17	.17	.11	.12	.11
7	.13	.17	.26	.17	.11	.15	.13	.17	.17	.11	.11	.09
8	.10	.17	.26	.12	.10	.16	.16	.17	.17	4.7	.10	7.7
9	.10	.17	.22	.11	.11	.12	.16	.22	.22	.09	.11	.36
10	.10	.17	.22	.12	.11	.16	.20	.17	.22	.10	.11	.22
11	.11	.17	.17	.12	.12	.11	.20	.17	.17	.36	9.5	.10
12	.11	.17	.17	.12	.17	.11	.20	.17	.17	16	9.2	.08
13	.12	.26	.17	.11	.11	.13	.23	.17	.17	1000	2.1	.10
14	.12	.22	.17	.11	.11	.10	.21	.17	.17	90	.12	.08
15	.10	.17	.17	.12	.11	.10	.20	.17	.17	10	.10	.36
16	.10	.17	.22	.12	.11	.10	.22	.26	.22	8.0	.09	.07
17	.10	.17	.17	.12	.11	.10	.22	.26	.22	620	.09	9.5
18	.09	.17	.17	.11	.11	.11	.26	.22	.22	680	.09	.94
19	.09	.17	.22	.12	.11	.12	.17	.17	.22	3.0	.08	6.2
20	.10	.17	.17	.11	.11	.11	.17	.17	.22	1.2	.08	.12
21	.10	.17	.17	.10	.11	.11	.17	.17	.17	.30	.10	.09
22	.12	.22	.17	.10	.11	.11	.17	.22	.17	.20	.10	.07
23	.12	.26	.17	.11	.11	.13	.17	.17	.17	.31	.08	.17
24	.12	.31	.17	.11	.11	.11	.17	.17	.26	.31	.08	3.8
25	.12	.26	.17	.10	.11	.10	.17	.22	.26	.41	.08	5.3
26	.12	.22	.17	.10	.17	.11	.17	.22	.36	.26	.08	5.3
27	.17	.22	.22	.11	.12	.11	.17	.17	.26	.22	.11	.12
28	.12	.26	.17	.11	.12	.12	.17	.26	.18	.26	.10	.11
29	.12	.22	.17	.12	---	.11	.17	.17	.13	.26	.08	.11
30	.12	.26	.12	.11	---	.11	.17	.17	.09	.26	.11	.12
31	.12	---	.12	.11	---	.12	---	.26	---	.41	.22	---
TOTAL	3.58	5.94	6.02	3.63	3.22	3.79	5.18	5.93	6.09	2437.49	23.73	41.64
MEAN	.12	.20	.19	.12	.12	.12	.17	.19	.20	78.6	.77	1.39
MAX	.18	.31	.26	.17	.17	.17	.26	.26	.36	1000	9.5	9.5
MIN	.09	.17	.12	.10	.10	.10	.11	.17	.09	.09	.08	.07
AC-FT	7.1	12	12	7.2	6.4	7.5	10	12	12	4830	47	83

CAL YR 1980 TOTAL 187.94 MEAN .51 MAX 8.3 MIN .08 AC-FT 373
WTR YR 1981 TOTAL 2546.24 MEAN 6.98 MAX 1000 MIN .07 AC-FT 5050

NOTE.--NO GAGE-HEIGHT RECORD MAR. 11 TO APR. 15.

09179200 SALT CREEK NEAR GATEWAY, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--November 1978 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: February to September 1981.
WATER TEMPERATURE: February to September 1981.

INSTRUMENTATION.--Water-quality monitor from February 1981.

REMARKS.--Previously unpublished data for 1979 and 1980 water years are published in this report.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 100,000 micromhos July 4; minimum, 1,000 micromhos July 8, 11.
WATER TEMPERATURE: Maximum, 35.0°C June 26; minimum, freezing point on many days during February to April.

WATER QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	HARDNESS (MG/L AS CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)
NOV								
28...	1000	.11	45000	8.2	.0	4100	850	480
APR								
10...	1125	.21	52000	7.8	9.0	3000	640	340
JUN								
08...	1045	.40	--	8.3	12.0	2700	540	320
14...	1345	--	--	--	--	2000	--	--
JUL								
19...	1210	.11	78000	8.1	28.0	1900	720	15
AUG								
03...	1030	.08	--	8.0	24.0	4100	820	510
30...	0930	.09	--	8.2	15.0	4000	790	490
SEP								
28...	1100	.12	--	8.1	10.0	4100	760	540

DATE	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE FET-FLD (MG/L AS HCO3)	CARBONATE FET-FLD (MG/L AS CO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)
NOV									
28...	22000	150	920	250	0	2800	34000	.2	7.4
APR									
10...	11000	87	480	--	--	2200	19000	.4	8.6
JUN									
08...	12000	99	500	--	--	2100	17000	.4	21
14...	--	183	--	--	--	--	--	--	--
JUL									
19...	22000	222	1100	--	--	3300	34000	.4	8.0
AUG									
03...	23000	155	1100	--	--	3100	30000	.3	6.0
30...	22000	152	820	--	--	2800	38000	.3	5.6
SEP									
28...	21000	142	610	--	--	2900	36000	.3	22

DATE	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, DISSOLVED (TONS PER DAY)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	IRON, DISSOLVED (UG/L AS FE)	MANGANESE, DISSOLVED (UG/L AS MN)
NOV								
28...	61200	83.2	18.2	.26	.020	.010	50	320
APR								
10...	33800	46.0	19.2	.07	.010	--	130	460
JUN								
08...	32600	44.3	35.2	.13	.010	--	170	630
14...	53600	72.9	--	--	--	--	--	--
JUL								
19...	61200	83.2	16.2	.25	.030	--	440	280
AUG								
03...	58600	79.7	12.7	.61	.020	--	500	1000
30...	65000	88.4	15.8	.09	.020	.020	320	880
SEP								
28...	62000	84.3	20.1	1.5	<.010	--	340	910

09179200 SALT CREEK NEAR GATEWAY, CO--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	HARD-NESS (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)
OCT 02...	1230	.08	70000	8.3	19.0	--	4500	900	550	23000	149	1200
DEC 17...	1200	.24	60000	7.2	---	14.6	3400	500	520	21000	157	69
JAN 30...	1200	.46	43000	6.8	1.5	13.4	3000	620	360	12000	95	460
MAR 13...	1100	.22	--	8.0	4.0	--	3200	650	380	14000	108	680
APR 23...	1100	--	9500	8.3	9.5	--	630	160	56	1700	29	82
MAY 29...	1030	.35	29000	8.5	14.0	8.9	2100	430	240	9500	91	370
JUL 07...	1200	.15	60000	8.3	19.5	7.2	3500	690	430	17000	125	850

DATE	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)
OCT 02...	2800	36000	.3	7.6	64600	87.9	14.0	.23	.010	370	400
DEC 17...	2200	32000	.4	8.9	56400	76.7	36.5	.14	.010	350	270
JAN 30...	2400	17000	.4	9.8	33000	44.9	41.0	9.3	.030	370	560
MAR 13...	960	23000	.4	8.5	39800	54.1	23.6	.23	.020	180	380
APR 23...	460	2700	.2	8.6	5220	7.1	--	.11	.010	100	100
MAY 29...	1400	16000	.5	9.1	28000	38.1	26.5	.06	.140	120	320
JUL 07...	2100	29000	.5	7.1	50200	68.3	20.3	.15	.040	230	320

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	HARD-NESS (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)
OCT 21...	1300	.19	68000	62000	8.1	12.5	9.1	3600	720
DEC 01...	1230	.23	75000	66200	7.6	-1.0	14.4	3200	640
JAN 06...	1230	.20	55000	62000	7.2	-2.0	13.0	3300	650
FEB 04...	1130	.14	63000	75000	7.9	<.0	13.5	4100	800
MAR 10...	1115	.19	40000	60000	8.1	4.0	9.5	3200	630
APR 15...	1500	.20	60500	60100	8.2	15.5	8.0	3800	770
JUN 01...	1100	.18	50000	55000	8.3	16.5	7.8	3100	610
JUL 22...	1130	.10	43000	54000	8.1	28.0	5.6	4600	1200
AUG 07...	1500	.11	55000	62000	8.0	29.5	5.4	4600	1100
11...	1430	--	--	22500	--	--	--	2600	760
SEP 30...	1500	.08	50000	62000	--	18.0	6.0	3500	770

09179200 SALT CREEK NEAR GATEWAY, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	ALKALINITY LAB (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)
OCT									
21...	430	17000	124	680	200	2200	29000	.3	8.5
DEC									
01...	390	16000	123	720	160	1500	28000	.2	8.2
JAN									
06...	410	16000	121	490	180	2300	26000	.3	6.8
FEB									
04...	510	20000	136	770	240	2800	33000	.3	12
MAR									
10...	390	13000	100	570	190	2400	21000	.3	8.4
APR									
15...	450	15000	106	620	180	2400	25000	.1	.0
JUN									
01...	380	12000	94	610	170	2300	25000	.4	10
JUL									
22...	380	14000	90	530	190	3000	25000	.2	10
AUG									
07...	440	17000	110	730	140	3300	29000	.5	8.6
11...	160	3300	28	170	92	1700	7800	.2	5.1
SEP									
30...	380	16000	118	570	150	2700	27000	.4	7.5

DATE	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, DISSOLVED (TONS PER DAY)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, DISSOLVED (MG/L AS P)	IRON, DISSOLVED (UG/L AS FE)	MANGANESE, DISSOLVED (UG/L AS MN)	POTASSIUM 40 DISSOLVED (PCI/L AS K40)
OCT									
21...	50200	68.3	25.8	2.0	--	.040	240	380	--
DEC									
01...	47400	64.5	29.4	1.6	.040	.010	330	310	--
JAN									
06...	46000	61.6	24.6	.34	--	.020	330	310	370
FEB									
04...	58000	78.9	21.9	.14	--	.020	360	350	570
MAR									
10...	38100	51.8	19.5	.29	--	.010	300	240	430
APR									
15...	44400	60.4	24.0	.19	--	.030	330	430	460
JUN									
01...	41000	55.8	19.9	.13	--	.020	190	210	460
JUL									
22...	44200	60.1	11.9	.11	--	.030	240	2300	400
AUG									
07...	51700	70.3	15.4	.24	--	.020	300	1000	--
11...	14000	19.0	--	.39	--	.010	230	430	--
SEP									
30...	47500	64.6	10.3	.25	--	.020	200	700	--

09179200 SALT CREEK NEAR GATEWAY, CO--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1					---	61000	66500	69500	61400	65000	---	43100
2					---	58400	67400	69000	63200	62600	---	44900
3					---	60500	64600	67700	40600	76600	---	44900
4					---	58800	65800	70300	40000	86100	---	45400
5					---	59800	67400	71800	49300	83700	---	40200
6					---	58800	67800	71000	54200	84900	---	39000
7					---	59000	67900	72500	52700	85800	62500	38900
8					---	61000	63900	70200	58600	49400	60000	---
9					---	61800	68400	71300	59200	10800	59500	---
10					---	64200	69200	71200	59700	12800	58600	---
11					---	62300	69400	71900	60200	12100	---	---
12					---	63800	68100	71200	60700	7590	---	---
13					---	63300	68100	72900	61200	---	---	---
14					---	61800	61800	74000	61800	---	49500	---
15					---	63900	58700	73500	62300	---	52600	---
16					---	64800	65700	66000	62800	---	53800	---
17					---	65400	66900	60300	63300	---	54800	---
18					---	66000	63700	66900	63900	---	54900	---
19					---	66000	65800	69000	64400	---	55600	---
20					---	64900	67000	68700	64900	---	56000	---
21					---	65700	66900	67400	65400	---	52900	---
22					---	66600	68300	67400	65900	57900	52200	---
23					---	66400	68400	67500	66500	58900	53000	---
24					---	67100	67300	66700	67000	56800	53000	---
25					71800	67200	69200	65700	67500	54700	52400	---
26					65000	67500	70700	66100	68000	54900	52300	---
27					67300	63700	69400	67400	68500	54800	48100	---
28					66200	61000	70500	62000	69000	53800	50900	---
29					---	64600	70900	66900	69600	52400	50700	---
30					---	63000	71200	67900	74400	51400	45600	---
31					---	66200	---	57700	---	48100	37700	---

09179200 SALT CREEK NEAR GATEWAY, CO--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1									---	---	6.5	.0
2									---	---	6.0	1.5
3									---	---	10.5	.5
4									---	---	9.0	.0
5									---	---	12.0	.0
6									---	---	7.5	3.0
7									---	---	8.0	.5
8									---	---	10.0	.0
9									---	---	9.5	.0
10									---	---	10.0	.0
11									---	---	12.5	2.0
12									---	---	12.0	.0
13									---	---	8.5	.0
14									---	---	14.0	1.0
15									---	---	11.0	.0
16									---	---	11.5	.0
17									---	---	14.0	.0
18									---	---	15.0	.0
19									---	---	12.5	.0
20									---	---	11.5	2.0
21									---	---	12.5	2.0
22									---	---	14.5	.0
23									---	---	17.0	.0
24									---	---	14.5	3.0
25									9.5	.0	15.0	.0
26									10.0	.0	14.5	3.0
27									9.5	.0	10.0	2.5
28									12.0	.0	8.5	1.5
29									---	---	14.5	.5
30									---	---	13.5	1.5
31									---	---	16.5	.0

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	15.0	.0	24.5	8.0	28.0	9.5	22.0	18.0				
2	15.0	.0	22.5	11.5	22.0	11.0	27.5	15.5				
3	10.0	2.5	19.5	9.5	23.0	13.0	31.0	13.5				
4	12.5	.0	23.5	5.0	28.5	12.0	30.5	14.0				
5	17.0	.0	21.5	4.5	29.5	11.0	32.5	13.0				
6	17.0	.0	19.5	8.0	31.5	12.0	29.5	13.5				
7	16.5	.5	22.0	4.0	28.0	14.0	30.0	15.5				
8	17.5	5.0	14.5	2.5	30.5	15.5	28.0	17.5				
9	19.5	2.0	23.0	2.5	30.0	15.0	22.5	19.0				
10	20.0	2.5	21.0	3.5	29.5	14.0	22.0	19.0				
11	18.5	2.5	22.0	7.5	30.5	14.5	23.5	19.0				
12	15.0	2.5	19.0	6.0	28.5	13.5	27.0	18.5				
13	20.5	5.5	23.0	4.5	28.0	14.0	---	---				
14	19.0	3.5	23.5	5.5	23.0	11.0	---	---				
15	20.5	8.0	19.0	8.0	27.5	8.5	---	---				
16	21.0	5.0	16.5	9.5	29.0	8.0	---	---				
17	23.0	6.5	16.0	7.5	30.0	12.0	---	---				
18	20.0	6.5	26.5	7.5	31.0	12.5	---	---				
19	19.0	8.5	23.0	9.0	31.5	12.5	---	---				
20	18.0	5.5	16.5	9.5	31.5	14.0	---	---				
21	21.5	4.5	19.5	6.0	31.5	15.5	---	---				
22	22.0	6.0	18.5	7.5	34.5	16.0	---	---				
23	23.5	4.5	20.5	6.5	31.5	16.0	---	---				
24	25.0	5.5	22.0	8.0	33.5	16.5	---	---				
25	23.0	6.0	19.0	10.5	33.5	16.5	---	---				
26	22.0	5.5	18.5	10.5	35.0	21.5	---	---				
27	20.5	8.0	22.5	10.0	33.5	21.0	---	---				
28	25.0	7.0	27.0	13.0	29.5	20.0	---	---				
29	25.0	6.0	22.5	10.5	31.5	17.5	---	---				
30	25.0	6.0	29.0	10.0	32.0	14.5	---	---				
31	---	---	21.0	13.0	---	---	---	---				

09235300 VERMILLION CREEK NEAR HIAWATHA, CO

LOCATION.--Lat 41°00'54", long 108°38'39", in NE¼SE¼NE¼ sec.15, T.12 N., R.100 W., Sweetwater County, WY, Hydrologic Unit 14040109, on right bank 0.7 mi (1.1 km) upstream from county road, 0.9 mi (1.4 km) downstream from Alkali Creek, 1.8 mi (2.9 km) upstream from Horseshoe Wash, 1.9 mi (3.1 km) upstream from the Wyoming-Colorado State line, 2.3 mi (3.7 km) northwest of Hiawatha, CO, and 49 mi (79 km) southwest of Rock Springs, WY.

DRAINAGE AREA.--196 mi² (508 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1975 to September 1981 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 6,610 ft (2,015 m), from topographic map.

REMARKS.--Records poor. No diversion above station.

AVERAGE DISCHARGE.--6 years, 3.23 ft³/s (0.091 m³/s), 2,340 acre-ft/yr (2.89 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,160 ft³/s (32.9 m³/s) Sept. 7, 1978, gage height, 7.71 ft (2.350 m), from rating curve extended above 16 ft³/s (0.45 m³/s) on basis of slope-area measurements at gage heights of 3.03 ft (0.924 m), 6.52 ft (1.987 m), and 7.71 ft (2.350 m); no flow for many days during most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 602 ft³/s (17.0 m³/s) July 3, gage height, 6.03 ft (1.838 m); no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.5	2.7	1.7	1.4	1.3	3.2	2.7	2.2	1.3	.35	.00	.00
2	1.5	2.9	1.6	1.4	1.2	3.5	2.6	2.6	1.2	.67	.00	.00
3	1.6	2.5	1.5	1.3	1.2	3.0	2.6	4.0	1.0	77	.00	.00
4	1.6	2.1	1.6	1.3	1.1	2.6	2.6	3.8	.82	3.3	.00	.00
5	1.6	2.3	1.5	1.2	1.1	4.1	2.7	2.9	.83	.25	.00	.00
6	1.6	2.4	1.4	1.2	1.0	4.5	3.0	2.9	.82	.13	.00	.00
7	1.6	2.1	1.3	1.1	.90	4.7	2.7	2.9	20	.08	.00	.00
8	1.6	2.1	1.2	1.0	1.0	4.0	2.9	3.0	2.7	.06	.00	.00
9	1.6	2.2	1.1	1.0	.90	3.8	2.9	2.9	2.2	.04	.00	.00
10	1.6	2.2	1.1	.98	.85	3.0	3.0	2.7	2.0	.01	.00	.01
11	1.6	2.0	1.2	.95	.80	2.8	2.7	2.7	2.1	.00	.00	.01
12	1.6	2.0	1.1	.92	.90	2.9	2.7	2.9	1.8	.00	.00	.00
13	1.7	2.0	1.2	.90	1.0	3.0	2.7	2.5	1.5	.00	.00	.06
14	2.4	1.9	1.4	.88	1.2	3.4	2.6	2.2	1.6	.00	.10	.05
15	2.9	1.8	1.6	.90	1.4	3.7	2.7	2.0	1.8	.00	.00	.00
16	2.5	1.6	1.8	.95	1.6	3.4	2.9	2.1	1.6	.00	.00	.00
17	2.1	1.4	1.9	1.0	1.7	3.0	2.7	2.6	1.5	.14	.00	.00
18	2.0	1.3	1.8	1.1	2.0	2.7	2.7	3.0	1.3	22	.00	.00
19	2.2	1.2	1.7	1.2	2.2	2.4	2.7	2.5	1.4	.15	.00	.00
20	2.2	1.2	1.6	1.3	2.0	2.3	2.7	2.5	1.5	.00	.00	.00
21	2.1	1.2	1.5	1.4	1.9	2.5	3.0	2.7	1.6	.00	.00	.03
22	2.0	1.3	1.6	1.5	2.1	2.6	3.0	2.9	1.5	.00	.10	.22
23	2.0	1.4	1.6	1.4	2.4	2.7	2.9	2.7	1.5	.00	.00	.08
24	1.9	1.5	1.5	1.3	2.7	2.8	2.5	2.2	1.4	.00	.00	.03
25	2.0	1.4	1.4	1.3	3.0	2.9	2.2	2.4	1.3	.00	.00	.04
26	2.0	1.5	1.5	1.2	3.2	3.0	2.0	3.0	1.2	36	.00	.16
27	2.0	1.4	1.6	1.2	3.1	3.2	2.0	3.7	.79	.25	.00	.16
28	2.0	1.5	1.6	1.1	3.0	3.0	2.1	17	.59	.04	.00	.10
29	2.1	1.6	1.5	1.1	---	2.8	2.2	4.0	.49	.01	.00	.10
30	2.2	1.7	1.4	1.2	---	2.8	2.2	1.9	.37	.01	.00	.08
31	2.4	---	1.5	1.3	---	2.9	---	1.6	---	.00	.00	---
TOTAL	59.7	54.4	46.0	35.98	46.75	97.2	78.9	99.0	59.71	140.49	.20	1.13
MEAN	1.93	1.81	1.48	1.16	1.67	3.14	2.63	3.19	1.99	4.53	.006	.038
MAX	2.9	2.9	1.9	1.5	3.2	4.7	3.0	17	20	77	.10	.22
MIN	1.5	1.2	1.1	.88	.80	2.3	2.0	1.6	.37	.00	.00	.00
AC-FT	118	108	91	71	93	193	156	196	118	279	.4	2.2

CAL YR 1980 TOTAL 2607.06 MEAN 7.12 MAX 172 MIN .31 AC-FT 5170
WTR YR 1981 TOTAL 719.46 MEAN 1.97 MAX 77 MIN .00 AC-FT 1430

09235300 VERMILLION CREEK NEAR HIAWATHA, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1976 to September 1981 (discontinued)

REMARKS.--No flow Aug. 5, Sept. 3.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	SPECIFIC CONDUCTANCE LAB (UMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (NTU)	OXYGEN, DISSOLVED (MG/L)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L)	HARDNESS (MG/L AS CACO3)	CALCIUM DISSOLVED (MG/L AS CA)
OCT											
02...	1700	1.6	1300	1150	8.4	18.0	480	7.8	.8	390	60
NOV											
06...	1345	2.8	1400	1340	8.4	5.5	5200	9.6	1.7	450	80
29...	1005	1.6	1600	1560	8.3	.0	700	11.3	4.8	480	84
JAN											
08...	1315	1.0	1800	1710	8.3	.0	500	10.6	4.2	550	96
FEB											
05...	1320	1.1	1520	1620	8.5	.0	190	10.0	1.0	530	93
MAR											
05...	1335	4.1	1630	1480	8.6	1.0	1000	10.7	2.0	490	86

DATE	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	ALKALINITY LAB (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)
OCT										
02...	58	160	3.5	3.7	330	360	21	.3	13	875
NOV										
06...	61	150	3.1	4.0	360	360	22	.3	13	907
29...	65	180	3.6	2.8	410	420	20	.3	74	1090
JAN										
08...	75	210	3.9	2.7	410	530	25	.3	16	1200
FEB										
05...	72	200	3.8	2.7	440	460	25	.3	16	1130
MAR										
05...	67	170	3.3	2.5	350	450	19	.3	13	1020

DATE	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, DISSOLVED (TONS PER DAY)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	BORON, DISSOLVED (UG/L AS B)	IRON, DISSOLVED (UG/L AS FE)
OCT										
02...	1.2	3.8	.00	.000	7.1	7.10	7.1	.150	10	20
NOV										
06...	1.2	6.9	.05	.020	2.1	2.10	2.2	.800	150	20
29...	1.5	4.7	.23	.000	.96	.96	1.2	.070	140	20
JAN										
08...	1.6	3.2	.26	.050	1.2	1.20	1.5	.050	130	30
FEB										
05...	1.5	3.4	.21	.060	.68	.74	.95	.080	130	10
MAR										
05...	1.4	11.3	.26	.010	2.1	2.10	2.4	1.20	340	60

09235300 VERMILLION CREEK NEAR HIAWATHA, CO--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL)	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DISSOLVED (UG/L AS AS)	BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE)	BERYLLIUM, DISSOLVED (UG/L AS BE)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	CHROMIUM, DISSOLVED (UG/L AS CR)
OCT 02...	740	10	2	2	0	0	1	0	10	0
JAN 08...	560	--	2	--	0	--	0	--	10	--

DATE	COPPER, TOTAL RECOVERABLE (UG/L AS CU)	COPPER, DISSOLVED (UG/L AS CU)	IRON, TOTAL RECOVERABLE (UG/L AS FE)	LEAD, TOTAL RECOVERABLE (UG/L AS PB)	LEAD, DISSOLVED (UG/L AS PB)	LITHIUM TOTAL RECOVERABLE (UG/L AS LI)	LITHIUM DISSOLVED (UG/L AS LI)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	MANGANESE, DISSOLVED (UG/L AS MN)	MERCURY TOTAL RECOVERABLE (UG/L AS HG)
OCT 02...	18	6	3100	6	0	60	60	150	30	1.2
JAN 08...	10	--	3900	4	--	70	--	150	--	.3

DATE	MERCURY DISSOLVED (UG/L AS HG)	MOLYBDENUM, TOTAL RECOVERABLE (UG/L AS MO)	MOLYBDENUM, DISSOLVED (UG/L AS MO)	NICKEL, TOTAL RECOVERABLE (UG/L AS NI)	NICKEL, DISSOLVED (UG/L AS NI)	SELENIUM, TOTAL (UG/L AS SE)	SELENIUM, DISSOLVED (UG/L AS SE)	VANADIUM, DISSOLVED (UG/L AS V)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	ZINC, DISSOLVED (UG/L AS ZN)
OCT 02...	1.5	9	8	5	0	1	0	12	40	10
JAN 08...	--	6	--	6	--	1	--	--	30	--

DATE	GROSS ALPHA, DISSOLVED (PCI/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (PCI/L AS U-NAT)	GROSS ALPHA, DISSOLVED (UG/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT)	GROSS BETA, DISSOLVED (PCI/L AS CS-137)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137)	GROSS BETA, DISSOLVED (PCI/L AS SR/YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/YT-90)	RADIUM 226, DISSOLVED, RADON METHOD (PCI/L)	URANIUM NATURAL DISSOLVED (UG/L AS U)
OCT 02...	<11	3.2	<16	4.7	<6.7	5.3	<6.4	5.0	.08	7.0

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY)	SED. SUSP. FALL DIAM. % FINER THAN .004 MM	SED. SUSP. FALL DIAM. % FINER THAN .016 MM	SED. SUSP. FALL DIAM. % FINER THAN .062 MM	SED. SUSP. FALL DIAM. % FINER THAN .125 MM	SED. SUSP. FALL DIAM. % FINER THAN .250 MM
OCT 02...	1700	1.6	150	.65	--	--	--	--	--
NOV 06...	1345	2.8	1560	12	--	--	--	--	--
29...	1005	1.6	274	1.2	--	--	--	--	--
JAN 08...	1315	1.0	250	.67	--	--	--	--	--
FEB 05...	1320	1.1	114	.34	--	--	--	--	--
MAR 05...	1335	4.1	3390	38	45	74	95	100	--
APR 02...	1105	2.8	3570	27	53	79	93	99	100
MAY 07...	1100	2.9	1360	11	54	75	92	99	100
JUN 03...	1255	.99	206	.55	--	--	--	--	--
JUL 02...	1245	.60	107	.17	--	--	--	--	--

09235450 VERMILLION CREEK AT INK SPRINGS RANCH, CO

LOCATION.--Lat 40°45'43", long 108°43'33", in SE¼SE¼ sec.3, T.9 N., R.101 W., Moffat County, Hydrologic Unit 14040109, on right bank 0.3 mi (0.5 km) downstream from unnamed tributary, 0.5 mi (0.8 km) upstream from inflow of Ink Springs, 800 ft (244 m) southwest of Ink Springs Ranch headquarters, and about 37 mi (60 km) northwest of Maybell.

DRAINAGE AREA.--816 mi^2 (2,113 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1977 to October 1981 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 5,725 ft (1,745 m), from topographic map.

REMARKS.--Records fair except those for period of no gage-height record, which are poor. Diversions above station for irrigation of hay meadows below station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 614 ft^3/s (17.4 m^3/s), Sept. 15, 1978, gage height, 4.18 ft (1.274 m) from rating curve extended above 16 ft^3/s (0.45 m^3/s) on basis of slope-area measurement of peak flow; minimum daily, 1.1 ft^3/s (0.031 m^3/s) Aug. 29, 1978.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 201 ft^3/s (5.69 m^3/s) at 2030 July 17, gage height, 2.89 ft (0.881 m); minimum daily, 2.4 ft^3/s (0.07 m^3/s) July 22-24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.5	5.0	6.0	6.5	5.3	12	7.4	7.7	6.3	4.1	2.7	3.2
2	2.5	5.0	6.0	6.5	4.7	11	7.9	7.9	5.2	5.3	2.7	3.1
3	2.5	4.5	7.0	6.7	4.6	11	9.3	39	4.5	29	2.8	3.1
4	2.5	4.0	6.5	6.9	5.3	12	11	38	4.3	29	2.9	3.3
5	2.5	4.0	6.0	7.9	5.0	11	7.6	48	4.3	9.6	2.9	3.9
6	2.5	4.0	6.0	5.6	5.1	11	9.0	14	3.9	5.6	2.6	38
7	2.5	4.0	5.5	4.7	4.9	11	15	11	3.8	3.5	2.8	4.8
8	2.5	4.0	5.5	5.1	5.3	10	20	9.6	8.4	3.3	2.8	2.9
9	2.5	4.0	5.0	4.9	5.7	10	30	8.7	4.4	3.3	2.8	2.9
10	2.5	4.0	5.0	5.4	4.0	9.7	17	8.2	3.9	3.4	2.8	3.0
11	2.5	4.0	5.0	5.1	4.5	9.6	12	8.6	3.4	3.6	2.8	4.5
12	3.0	4.5	4.5	4.2	5.5	9.9	11	8.5	3.0	3.7	2.8	2.9
13	4.0	5.0	4.5	4.1	5.7	9.6	10	8.0	2.9	3.8	2.9	2.8
14	6.0	4.5	4.5	3.6	5.9	9.5	9.5	7.7	2.8	3.8	4.9	2.8
15	8.0	4.0	5.0	3.9	6.2	9.1	9.5	7.3	2.9	3.9	3.5	2.9
16	4.0	3.5	6.5	3.7	6.3	9.0	9.5	7.3	2.9	4.0	3.0	2.8
17	4.0	3.0	6.0	3.8	6.9	9.0	9.8	37	3.0	12	3.1	2.9
18	4.0	3.0	6.0	3.8	8.0	8.2	10	36	2.9	4.1	3.1	3.1
19	4.0	3.0	6.0	3.8	11	7.1	10	16	3.0	9.2	3.2	3.3
20	4.0	3.0	5.5	3.9	10	8.1	9.5	10	2.9	2.9	3.3	3.3
21	4.0	3.0	5.5	4.2	7.9	8.2	8.8	16	2.8	2.5	3.0	3.4
22	4.0	3.5	6.5	4.5	8.7	7.1	8.9	20	2.8	2.4	3.0	3.2
23	4.0	4.0	6.5	4.8	10	7.0	8.8	17	2.7	2.4	3.1	3.2
24	4.0	4.0	6.0	4.7	13	7.5	8.7	13	2.6	2.4	3.1	3.2
25	4.0	3.5	6.5	4.4	14	7.4	8.6	8.1	3.0	2.5	3.2	3.4
26	4.0	3.5	7.0	4.3	13	7.6	8.1	7.5	2.9	2.6	3.3	3.4
27	4.0	4.0	6.5	4.9	15	7.9	7.8	7.0	3.0	30	3.2	3.3
28	4.0	5.0	7.0	4.9	15	8.5	7.6	8.8	5.8	4.1	3.2	3.5
29	4.0	5.0	6.0	5.0	---	7.9	7.8	33	6.7	3.2	3.2	3.8
30	4.0	6.0	6.0	5.0	---	8.8	7.9	22	4.8	2.7	3.1	3.6
31	4.5	---	6.5	5.2	---	7.9	---	8.9	---	2.7	2.9	---
TOTAL	113.0	121.5	182.0	152.0	216.5	283.6	318.0	499.8	115.8	204.6	94.7	133.5
MEAN	3.65	4.05	5.87	4.90	7.73	9.15	10.6	16.1	3.86	6.60	3.05	4.45
MAX	8.0	6.0	7.0	7.9	15	12	30	48	8.4	30	4.9	38
MIN	2.5	3.0	4.5	3.6	4.0	7.0	7.4	7.0	2.6	2.4	2.6	2.8
AC-FT	224	241	361	301	429	563	631	991	230	406	188	265

CAL YR 1980 TOTAL 7832.2 MEAN 21.4 MAX 232 MIN 2.2 AC-FT 15540
WTR YR 1981 TOTAL 2435.0 MEAN 6.67 MAX 48 MIN 2.4 AC-FT 4830

NOTE.--NO GAGE-HEIGHT RECORD OCT. 1 TO DEC. 31.

09235450 VERMILLION CREEK AT INK SPRINGS RANCH, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--November 1977 to September 1981 (discontinued).

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	SPECIFIC CONDUCTANCE LAB (UMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (NTU)	OXYGEN, DISSOLVED (MG/L)	OXYGEN DEMAND, CHEMICAL (HIGH LEVEL) (MG/L)	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ML)	STREPTOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
NOV 19...	1100	3.0	1500	1518	8.0	10.0	--	11.6	12	--	--
JAN 20...	1100	3.8	1520	1480	8.0	7.0	--	10.8	1	K8	74
MAR 03...	1200	9.0	1550	1560	8.3	7.0	--	9.6	130	77	390
APR 07...	1130	14	1720	1720	8.1	--	--	9.6	330	K140	2400
MAY 04...	1200	25	2300	2320	7.9	9.0	12000	--	940	3000	E120000
JUN 25...	1005	2.4	1000	1020	8.1	19.5	--	8.2	0	160	660
AUG 04...	1300	2.8	975	982	8.4	25.5	--	7.9	14	80	620

DATE	HARDNESS (MG/L AS CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	ALKALINITY LAB (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)
NOV 19...	440	100	47	170	3.5	9.1	230	370	140	.3
JAN 20...	490	120	46	150	3.0	5.6	240	420	120	.4
MAR 03...	550	130	54	150	2.8	4.9	240	520	69	.3
APR 07...	570	130	60	180	3.3	5.0	230	640	66	.4
MAY 04...	790	210	64	230	3.6	7.2	210	1000	68	.6
JUN 25...	290	69	28	93	2.4	7.0	190	110	150	.3
AUG 04...	260	61	27	91	2.7	7.1	170	110	140	.5

DATE	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, DISSOLVED (TONS PER DAY)	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NITRITE DISSOLVED (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)
NOV 19...	15	1030	990	1.4	8.3	--	--	--	.19	.040
JAN 20...	15	1040	1020	1.4	10.7	--	--	--	.34	.120
MAR 03...	15	1130	1200	1.5	27.5	--	--	--	.30	.030
APR 07...	11	1280	1230	1.7	48.4	--	--	--	.50	.030
MAY 04...	9.1	1880	1720	2.6	127	--	--	2.80	2.1	3.70
JUN 25...	12	609	584	.83	4.0	.10	.000	--	.10	.080
AUG 04...	12	536	551	.73	4.1	--	--	--	.15	.190

E ESTIMATED.

K BASED ON NON-IDEAL COLONY COUNT.

09235450 VERMILLION CREEK AT INK SPRINGS RANCH, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, DISSOLVED (MG/L AS P)	BORON, DISSOLVED (UG/L AS B)	IRON, DISSOLVED (UG/L AS FE)	CARBON, ORGANIC DISSOLVED (MG/L AS C)	CARBON, ORGANIC SUSPENDED TOTAL (MG/L AS C)	PHYTOPLANKTON, TOTAL (CELLS PER ML)
NOV										
19...	.69	.73	.92	.040	.030	190	<10	9.0	.4	140
JAN										
20...	.48	.60	.94	.020	.030	130	40	17	--	140
MAR										
03...	1.2	1.20	1.5	.780	.040	110	<10	5.9	--	56
APR										
07...	15	15.0	16	.030	.030	270	0	11	--	--
MAY										
04...	19	23.0	25	8.90	.050	340	50	9.5	--	--
JUN										
25...	.53	.61	.71	.030	.010	140	40	16	--	900
AUG										
04...	.28	.47	.62	.010	.030	140	18	2.4	--	2000

DATE	TIME	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DISSOLVED (UG/L AS AS)	ARSENIC TOTAL IN BOTTOM MATERIAL (UG/G AS AS)	BARIUM, TOTAL RECOVERABLE (UG/L AS BA)	BARIUM, DISSOLVED (UG/L AS BA)	BARIUM, RECOV. FM BOTTOM MATERIAL (UG/G AS BA)	BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE)	BERYLLIUM, DISSOLVED (UG/L AS BE)	BERYLLIUM, RECOV. FM BOTTOM MATERIAL (UG/G)
JAN											
20...	1100	0	--	2	--	--	60	--	--	<1	--
MAY											
04...	1200	30	100	3	44	1400	160	55	10	18	0
AUG											
04...	1300	20	--	2	--	--	60	--	--	<1	--

DATE	CADMIUM TOTAL RECOVERABLE (UG/L AS CD)	CADMIUM DISSOLVED (UG/L AS CD)	CADMIUM RECOV. FM BOTTOM MATERIAL (UG/G AS CD)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	CHROMIUM, DISSOLVED (UG/L AS CR)	CHROMIUM, RECOV. FM BOTTOM MATERIAL (UG/G)	COBALT, TOTAL RECOVERABLE (UG/L AS CO)	COBALT, DISSOLVED (UG/L AS CO)	COBALT, RECOV. FM BOTTOM MATERIAL (UG/G AS CO)	COPPER, DISSOLVED (UG/L AS CU)	COPPER, RECOV. FM BOTTOM MATERIAL (UG/G AS CU)
JAN											
20...	--	2	--	--	10	--	--	<3	--	3	--
MAY											
04...	1	0	2	,80	10	2	40	0	10	4	3
AUG											
04...	--	<1	--	--	10	--	--	<3	--	2	--

DATE	LEAD, TOTAL RECOVERABLE (UG/L AS PB)	LEAD, DISSOLVED (UG/L AS PB)	LEAD, RECOV. FM BOTTOM MATERIAL (UG/G AS PB)	LITHIUM TOTAL RECOVERABLE (UG/L AS LI)	LITHIUM DISSOLVED (UG/L AS LI)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	MANGANESE, DISSOLVED (UG/L AS MN)	MANGANESE, RECOV. FM BOTTOM MATERIAL (UG/G)	MERCURY TOTAL RECOVERABLE (UG/L AS HG)	MERCURY DISSOLVED (UG/L AS HG)	MERCURY RECOV. FM BOTTOM MATERIAL (UG/G AS HG)
JAN											
20...	--	0	--	--	100	--	30	--	--	.1	--
MAY											
04...	110	3	10	100	80	2600	0	600	1.1	.0	.05
AUG											
04...	--	1	--	--	130	--	14	--	--	.0	--

09235450 VERMILLION CREEK AT INK SPRINGS RANCH, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	MOLYBDENUM, TOTAL RECOVERABLE (UG/L AS MO)	MOLYBDENUM, DISSOLVED (UG/L AS MO)	MOLYBDENUM, RECOV. FM BOTTOM MATERIAL (UG/G)	NICKEL, TOTAL RECOVERABLE (UG/L AS NI)	NICKEL, DISSOLVED (UG/L AS NI)	NICKEL, RECOV. FM BOTTOM MATERIAL (UG/G AS NI)	SELENIUM, TOTAL (UG/L AS SE)	SELENIUM, DISSOLVED (UG/L AS SE)	SELENIUM, TOTAL IN BOTTOM MATERIAL (UG/G)	VANADIUM, DISSOLVED (UG/L AS V)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN)
JAN											
20...	--	14	--	--	2	--	--	1	--	2.0	--
MAY											
04...	2	10	1	43	2	10	12	5	1	3.0	950
AUG											
04...	--	<10	--	--	0	--	--	1	--	1.0	--

DATE	ZINC, DISSOLVED (UG/L AS ZN)	ZINC, RECOV. FM BOTTOM MATERIAL (UG/G AS ZN)	GROSS ALPHA, DISSOLVED (PCI/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (PCI/L AS U-NAT)	GROSS ALPHA, DISSOLVED (UG/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT)	GROSS BETA, DISSOLVED (PCI/L AS CS-137)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137)	GROSS BETA, DISSOLVED (PCI/L AS SR/YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/YT-90)
JAN										
20...	10	--	--	--	--	--	--	--	--	--
MAY										
04...	10	5	27	1200	<39	1700	19	1100	19	1000
AUG										
04...	<3	--	--	--	--	--	--	--	--	--

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY)	SED. SUSP. FALL DIAM. % FINER THAN .002 MM	SED. SUSP. FALL DIAM. % FINER THAN .004 MM	SED. SUSP. FALL DIAM. % FINER THAN .016 MM	SED. SUSP. FALL DIAM. % FINER THAN .062 MM	SED. SUSP. FALL DIAM. % FINER THAN .125 MM	SED. SUSP. FALL DIAM. % FINER THAN .250 MM
NOV										
19...	1030	3.0	114	.92	--	--	--	--	--	--
JAN										
20...	1030	3.8	78	.80	--	--	--	--	--	--
MAR										
03...	1200	9.0	890	22	--	--	--	--	--	--
APR										
07...	1200	--	7980	--	50	68	85	96	99	100
MAY										
03...	1200	25	28900	1950	--	--	--	--	--	--
AUG										
04...	1300	2.9	55	.42	--	--	--	--	--	--

09235450 VERMILLION CREEK AT INK SPRINGS RANCH, CO--Continued

PHYTOPLANKTON ANALYSES, OCTOBER 1980 TO AUGUST 1981

DATE	NOV 19,80		JAN 20,81		MAR 3,81		JUN 25,81		AUG 4,81	
TIME	1100		1100		1200		1005		1300	
TOTAL CELLS/ML	140		140		56		900		2600	
DIVERSITY: DIVISION	0.0		0.0		0.0		0.9		0.4	
.CLASS	0.0		0.0		0.0		0.9		0.4	
..ORDER	0.4		0.0		0.0		0.9		0.7	
...FAMILY	1.9		1.8		1.0		1.8		2.4	
....GENUS	1.9		1.8		1.0		1.9		2.4	
ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHRYSOPHYTA										
.BACILLARIOPHYCEAE										
..CENTRALES										
...COSCINODISCACEAE										
....CYCLOTELLA	13	9	--	-	--	-	--	-	70	3
..PENNALES										
...ACHNANTHACEAE										
....ACHNANTHES	26#	18	--	-	--	-	26	3	300	12
....COCCONEIS	--	-	--	-	--	-	64	7	--	-
...FRAGILARIACEAE										
....FRAGILARIA	--	-	26#	18	--	-	--	-	--	-
....SYNEDRA	--	-	--	-	--	-	13	1	330	13
...GOMPHONEMATACEAE										
....GOMPHONEMA	13	9	--	-	--	-	13	1	330	13
...NAVICULACEAE										
....NAVICULA	--	-	64#	45	28#	50	13	1	160	6
...NITZSCHIACEAE										
....NITZSCHIA	77#	55	13	9	28#	50	480#	53	1100#	45
...SURIRELLACEAE										
....SURIRELLA	13	9	39#	27	--	-	39	4	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)										
.CYANOPHYCEAE										
..CHROOCOCCALES										
...CHROOCOCCACEAE										
....ANACYSTIS	--	-	--	-	--	-	--	-	47	2
..HORMOGONALES										
...OSCILLATORIACEAE										
....OSCILLATORIA	--	-	--	-	--	-	260#	29	160	6

NOTE: # - DOMINANT ORGANISM, EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

09235800 POT CREEK NEAR VERNAL, UT

LOCATION.--Lat 40°40'25", long 109°03'03", in SW¼NE¼SE¼ sec.1, T.2 S., R.25 E., Daggett County, UT, Hydrologic Unit 14040106, on left bank 0.2 mi (0.3 km) upstream from Colorado-Utah State line, 7 mi (11 km) upstream from mouth, and 29 mi (47 km) northeast of Vernal.

DRAINAGE AREA.--107 mi² (277 km²).

PERIOD OF RECORD.--August 1957 to current year.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 6,900 ft (2,103 m), from topographic map.

REMARKS.--Records good. Flow regulated by Matt Warner and Crouse Reservoirs, 14 mi (23 km) and 7 mi (11 km) upstream, respectively, combined capacity, about 4,000 acre-ft (4.93 hm³). Several diversions for irrigation above station, including one to Crouse Creek basin for irrigation of about 100 acres (405,000 m²) in Browns Park.

AVERAGE DISCHARGE.--24 years, 1.84 ft³/s (0.052 m³/s), 1,330 acre-ft/yr (1.64 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 286 ft³/s (8.10 m³/s) Apr. 7, 1962, gage height, 3.85 ft (1.173 m), from rating curve extended above 170 ft³/s (4.81 m³/s); maximum gage height, 3.99 ft (1.216 m) Mar. 15, 1966 (backwater from ice); no flow for part of each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 5.5 ft³/s (0.16 m³/s) July 5, gage height, 1.10 ft (0.335 m); no flow most of the year.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.04	.01	.04	.04	.04	.08	.00	.00	.00	.00	.00
2	.00	.04	.01	.04	.04	.04	.07	.01	.00	.00	.00	.00
3	.00	.04	.01	.04	.04	.04	.14	.23	.00	.00	.00	.00
4	.00	.02	.01	.04	.04	.04	.12	.12	.00	.00	.00	.00
5	.00	.02	.01	.04	.04	.04	.08	.04	.00	5.1	.00	.00
6	.00	.02	.01	.04	.04	.04	.07	.03	.00	2.1	.00	.00
7	.00	.03	.01	.04	.04	.04	.15	.02	.00	.22	.00	.00
8	.00	.01	.01	.04	.04	.04	.18	.01	.00	.00	.00	.00
9	.00	.01	.01	.04	.04	.04	.11	.00	.00	.00	.00	.00
10	.00	.01	.01	.04	.04	.04	.08	.00	.00	.00	.00	.00
11	.00	.01	.01	.04	.04	.04	.06	.05	.00	.00	.00	.00
12	.00	.04	.01	.04	.04	.04	.05	.05	.00	.00	.00	.00
13	.12	.09	.02	.04	.04	.04	.05	.02	.00	.00	.00	.00
14	.16	.06	.02	.04	.04	.04	.04	.01	.00	.00	.00	.00
15	.34	.04	.02	.04	.04	.04	.10	.01	.00	.00	.00	.00
16	.18	.03	.02	.04	.04	.04	.08	.15	.00	.00	.00	.00
17	.09	.02	.02	.04	.04	.05	.05	.06	.00	.00	.00	.00
18	.05	.03	.02	.04	.04	.06	.05	.04	.00	.00	.00	.00
19	.03	.01	.02	.04	.04	.08	.04	.04	.00	.00	.00	.00
20	.01	.01	.03	.04	.04	.10	.03	.04	.00	.00	.00	.00
21	.01	.01	.03	.04	.04	.12	.03	.12	.00	.00	.00	.00
22	.07	.01	.03	.04	.04	.11	.04	.10	.00	.00	.00	.00
23	3.7	.01	.03	.04	.04	.09	.02	.06	.00	.00	.00	.00
24	1.2	.01	.03	.04	.04	.09	.02	.04	.00	.00	.00	.00
25	.23	.01	.03	.04	.04	.08	.01	.04	.00	.00	.00	.00
26	.09	.01	.03	.04	.04	.08	.01	.06	.00	.00	.00	.00
27	.08	.01	.04	.04	.04	.17	.01	.11	.00	.00	.00	.00
28	.07	.01	.04	.04	.04	.22	.00	.11	.00	.00	.00	.00
29	.06	.01	.04	.04	---	.15	.00	.08	.00	.00	.00	.00
30	.04	.01	.04	.04	---	.12	.00	.02	.00	.00	.00	.00
31	.04	---	.04	.04	---	.10	---	.00	---	.00	.00	---
TOTAL	6.57	.68	.67	1.24	1.12	2.26	1.77	1.67	.00	7.42	.00	.00
MEAN	.21	.023	.022	.040	.040	.073	.059	.054	.000	.24	.000	.000
MAX	3.7	.09	.04	.04	.04	.22	.18	.23	.00	5.1	.00	.00
MIN	.00	.01	.01	.04	.04	.04	.00	.00	.00	.00	.00	.00
AC-FT	13	1.3	1.3	2.5	2.2	4.5	3.5	3.3	.00	15	.00	.00

CAL YR 1980 TOTAL 1703.38 MEAN 4.65 MAX 121 MIN .00 AC-FT 3380
WTR YR 1981 TOTAL 23.40 MEAN .064 MAX 5.1 MIN .00 AC-FT 46

09236000 BEAR RIVER NEAR TOPONAS, CO

LOCATION.--Lat 40°03'00", long 107°04'00", in NW¼ sec.20, T.1 N., R.86 W., Garfield County, Hydrologic Unit 14050001, on right bank just downstream from Yampa Reservoir Dam at Stillwater campground, 0.8 mi (1.3 km) downstream from Mandall Creek, 0.8 mi (1.3 km) upstream from Dome Creek, and 14 mi (23 km) west of Toponas.

DRAINAGE AREA.--23 mi² (60 km²), approximately.

PERIOD OF RECORD.--October 1952 to September 1965, October 1966 to current year. Published as Yampa River near Toponas prior to October 1973.

GAGE.--Water-stage recorder and Parshall flume. Altitude of gage is 9,700 ft (2,957 m), from river-profile map. Oct. 28, 1952, to Sept. 30, 1965, water-stage recorder at site 50 ft (15 m) upstream at different datum.

REMARKS.--Records fair. Flow regulated by Stillwater Reservoir, capacity, 6,200 acre-ft (7.64 hm³) 3.5 mi (5.6 km) upstream and Yampa Reservoir, capacity, 620 acre-ft (764,000 m³). Several observations of specific conductance and water temperature were obtained and are published elsewhere in this report.

AVERAGE DISCHARGE.--28 years, 39.4 ft³/s (1.116 m³/s), 28,550 acre-ft/yr (35.2 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 436 ft³/s (12.3 m³/s) July 2, 1957, gage height, 6.39 ft (1.948 m), site and datum then in use; minimum daily, 1.6 ft³/s (0.045 m³/s) Oct. 6-24, Nov. 18 to Dec. 8, 1966.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 166 ft³/s (4.70 m³/s) at 0200 June 10, gage height, 2.23 ft (0.680 m); minimum daily, 3.2 ft³/s (0.091 m³/s) Sept. 6-10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25	20	19	17	16	16	16	49	61	72	30	16
2	25	20	18	18	16	16	16	54	61	76	32	16
3	25	20	19	17	16	16	17	65	73	58	32	10
4	25	20	21	17	16	16	17	54	74	39	31	9.7
5	25	20	18	17	15	16	17	49	79	37	31	7.0
6	25	20	19	17	15	16	15	50	90	36	25	3.2
7	25	20	19	17	15	16	16	47	97	35	22	3.2
8	25	20	19	17	15	16	16	44	112	34	21	3.2
9	25	19	18	16	15	16	17	42	123	34	21	3.2
10	25	19	18	16	15	16	18	41	160	37	21	3.2
11	25	19	18	16	15	16	18	38	157	36	22	8.3
12	25	19	18	16	16	16	19	30	154	56	22	11
13	26	20	18	16	16	16	20	28	117	70	21	14
14	26	20	18	16	16	16	20	28	116	59	20	14
15	24	18	18	16	16	16	20	29	105	54	20	14
16	23	18	18	16	16	16	21	30	85	49	20	14
17	24	18	18	16	16	16	22	29	84	50	18	13
18	23	18	18	16	16	16	24	28	87	45	17	13
19	23	19	17	16	16	16	27	28	119	40	17	13
20	22	19	17	16	16	16	26	30	156	37	17	12
21	22	19	17	16	16	16	22	31	150	36	17	12
22	21	19	18	16	16	16	22	30	148	33	17	12
23	21	20	19	16	16	16	21	31	145	29	17	15
24	20	20	19	16	16	16	24	31	135	28	17	21
25	21	20	18	16	16	16	30	36	129	28	17	16
26	21	20	18	16	16	17	33	39	121	28	17	13
27	21	19	18	16	16	17	33	44	118	28	16	12
28	20	19	18	16	16	17	33	52	114	25	16	12
29	20	19	18	16	---	17	35	54	82	36	16	11
30	20	19	17	16	---	17	42	58	76	29	16	11
31	20	---	18	16	---	17	---	67	---	28	16	---
TOTAL	718	580	564	505	441	502	677	1266	3328	1282	642	336.0
MEAN	23.2	19.3	18.2	16.3	15.8	16.2	22.6	40.8	111	41.4	20.7	11.2
MAX	26	20	21	18	16	17	42	67	160	76	32	21
MIN	20	18	17	16	15	16	15	28	61	25	16	3.2
AC-FT	1420	1150	1120	1000	875	996	1340	2510	6600	2540	1270	666

CAL YR 1980 TOTAL 14586.0 MEAN 39.9 MAX 223 MIN 13 AC-FT 28930
WTR YR 1981 TOTAL 10841.0 MEAN 29.7 MAX 160 MIN 3.2 AC-FT 21500

09239500 YAMPA RIVER AT STEAMBOAT SPRINGS, CO

LOCATION.--Lat 40°29'01", long 106°49'54", in NW¼NE¼ sec.17, T.6 N., R.84 W., Routt County, Hydrologic Unit 14050001, on right bank 30 ft (9 m) downstream from Fifth Street Bridge in Steamboat Springs and 0.6 mi (1.0 km) upstream from Soda Creek.

DRAINAGE AREA.--604 mi² (1,564 km²).

PERIOD OF RECORD.--May 1904 to October 1906, October 1909 to current year. Monthly discharge only for some periods, published in WSP 1313.

REVISED RECORDS.--WSP 764: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 6,695.47 ft (2,040.779 m), National Geodetic Vertical Datum of 1929. Prior to May 8, 1905, nonrecording gage at bridge 0.2 mi (0.3 km) upstream at datum 4.16 ft (1.268 m) higher. May 8, 1905, to Oct. 31, 1906, nonrecording gage on bridge 30 ft (9 m) upstream at datum 0.44 ft (0.134 m) higher. Mar. 8, 1910, to Sept. 11, 1934, water-stage recorder at present site at datum 0.44 ft (0.134 m) higher.

REMARKS.--Records good. Natural flow of stream affected by two diversions for irrigation to Egeria Creek in Colorado River basin, one diversion for irrigation from Trout Creek drainage to Oak Creek drainage, irrigation of about 19,700 acres (79.7 km²) above station, and by storage reservoirs. Several observations of specific conductance and water temperature were obtained and are published elsewhere in this report.

AVERAGE DISCHARGE.--74 years, 463 ft³/s (13.11 m³/s), 335,400 acre-ft/yr (414 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,820 ft³/s (193 m³/s) June 14, 1921, gage height, 7.08 ft (2.158 m), present datum, from rating curve extended above 4,800 ft³/s (140 m³/s); minimum daily, 4.0 ft³/s (0.11 m³/s) Sept. 8, 1934, Sept. 10-13, 1944.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,430 ft³/s (68.8 m³/s) at 2300 June 7, gage height, 4.62 ft (1.408 m), no peak above base of 3,000 ft³/s (85 m³/s); minimum daily, 48 ft³/s (1.36 m³/s) Sept. 20-23.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	70	108	97	80	56	79	117	1130	1890	251	140	61
2	72	105	94	77	56	83	170	1160	1800	334	127	62
3	73	107	95	76	55	85	234	1400	1790	487	117	68
4	71	104	98	76	54	88	165	1200	1880	400	109	66
5	70	101	98	79	54	82	138	994	1760	293	104	65
6	70	102	94	80	54	77	157	938	1640	220	98	68
7	69	105	96	76	54	83	194	834	1980	180	91	66
8	69	109	95	70	54	81	175	702	1790	160	86	65
9	68	107	89	70	55	80	208	601	1550	150	84	57
10	67	104	81	68	61	80	280	528	1240	142	85	54
11	65	102	81	66	74	80	318	536	1050	138	87	56
12	66	104	83	64	58	81	336	498	844	143	93	54
13	76	122	86	59	57	83	328	476	679	191	121	55
14	88	123	80	56	59	86	318	461	607	205	118	55
15	100	106	79	56	61	91	350	480	522	172	110	54
16	113	87	83	56	62	98	393	483	465	149	105	53
17	115	83	85	56	63	103	451	527	418	154	101	52
18	115	78	84	56	63	98	529	511	378	196	89	52
19	115	80	88	56	66	90	632	514	342	214	81	51
20	116	80	87	56	66	90	644	565	314	168	73	48
21	116	80	84	56	68	90	553	685	284	151	70	48
22	116	81	86	56	67	88	513	624	260	137	70	48
23	108	86	93	56	76	91	443	790	238	130	70	48
24	100	88	88	56	86	102	467	849	247	133	69	50
25	97	100	81	56	85	114	636	877	188	131	65	49
26	100	92	86	56	77	124	853	1050	171	189	66	52
27	104	90	86	56	80	185	956	1570	182	256	64	52
28	100	87	93	56	79	180	952	1670	482	177	63	54
29	94	89	88	56	---	149	1010	1670	479	148	59	54
30	96	96	73	56	---	130	1080	1670	343	128	61	56
31	105	---	80	56	---	118	---	1790	---	124	61	---
TOTAL	2804	2906	2711	1949	1800	3089	13600	27783	25813	6051	2737	1673
MEAN	90.5	96.9	87.5	62.9	64.3	99.6	453	896	860	195	88.3	55.8
MAX	116	123	98	80	86	185	1080	1790	1980	487	140	68
MIN	65	78	73	56	54	77	117	461	171	124	59	48
AC-FT	5560	5760	5380	3870	3570	6130	26980	55110	51200	12000	5430	3320

CAL YR 1980 TOTAL 170611 MEAN 466 MAX 3140 MIN 65 AC-FT 338400
WTR YR 1981 TOTAL 92916 MEAN 255 MAX 1980 MIN 48 AC-FT 184300

09241000 ELK RIVER AT CLARK, CO

LOCATION.--Lat 40°43'03", long 106°54'55", in NW¼NW¼ sec.27, T.9 N., R.85 W., Routt County, Hydrologic Unit 14050001, on left bank 30 ft (9 m) downstream from bridge on State Highway 129, 0.8 mi (1.3 km) north of Clark, and 2.0 mi (3.2 km) upstream from Cottonwood Gulch.

DRAINAGE AREA.--206 mi² (534 km²).

PERIOD OF RECORD.--May 1910 to September 1922 (published as "near Clark"), April 1930 to current year. Monthly discharge only for some periods, published in WSP 1313.

REVISED RECORDS.--WSP 1733: 1956.

GAGE.--Water-stage recorder. Datum of gage is 7,267.75 ft (2,215.210 m) (State Highway Department bench mark). May 1910 to September 1922, nonrecording gage at site 30 ft (9 m) upstream at datum 0.15 ft (0.046 m) lower. Apr. 23, 1930, to Sept. 27, 1934, water-stage recorder at present site at datum 0.15 ft (0.046 m) lower.

REMARKS.--Records good except those for winter period and those for periods of no gage-height record, which are poor. Diversions above station for irrigation of about 230 acres (931,000 m²) above and about 460 acres (1.86 km²) below station. Natural flow of stream affected by storage in Lester Creek Reservoir (known also as Pearl Lake), capacity, 5,660 acre-ft (6.98 hm³) since 1963 and Steamboat Lake, capacity, 23,060 acre-ft (28.4 hm³) since 1968. Several observations of specific conductance and water temperature were obtained and are published elsewhere in this report.

AVERAGE DISCHARGE.--63 years, 333 ft³/s (9.431 m³/s), 241,300 acre-ft/yr (298 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 4,470 ft³/s (127 m³/s) June 6, 9, 1912; minimum daily determined, 22 ft³/s (0.62 m³/s) Dec. 12, 1963, but a lesser discharge may have occurred during periods of no gage-height record prior to 1939.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, about 1,800 ft³/s (51.0 m³/s) June 7, no peak above base of 1,900 ft³/s (54 m³/s); minimum daily, 43 ft³/s (1.22 m³/s) Sept. 17-25.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	51	58	48	47	50	52	57	900	1300	275	81	57
2	51	58	48	47	50	52	57	950	1200	341	78	57
3	50	57	48	47	50	52	58	840	1200	456	76	57
4	50	57	47	47	50	52	58	800	1300	427	74	57
5	50	57	47	47	50	52	59	600	1200	312	72	58
6	49	57	47	47	50	52	59	520	1100	261	65	58
7	49	56	46	47	50	52	59	480	1500	235	64	54
8	48	57	46	47	50	52	59	480	1200	219	63	50
9	48	56	46	47	50	52	59	440	1100	194	63	50
10	48	55	45	47	50	52	59	450	1000	182	63	50
11	47	54	45	48	50	54	59	400	900	170	69	50
12	47	54	45	48	50	54	61	390	850	170	71	47
13	53	55	45	48	50	54	65	380	750	170	77	45
14	63	56	45	48	50	54	70	370	700	170	74	44
15	74	55	45	48	52	54	76	380	680	163	69	44
16	76	54	45	48	52	54	84	400	640	151	72	44
17	71	54	45	48	52	54	96	450	600	160	78	43
18	69	54	45	48	52	54	116	460	560	163	69	43
19	67	54	46	48	52	54	155	440	540	149	62	43
20	66	52	46	48	52	56	155	450	500	131	58	43
21	73	52	46	49	52	54	190	510	480	119	58	43
22	76	52	46	49	52	55	145	490	450	109	57	43
23	67	52	46	49	52	54	140	500	430	103	56	43
24	55	52	46	49	52	54	170	600	427	103	54	43
25	54	50	46	49	52	53	220	650	377	107	57	43
26	58	50	47	49	52	53	350	700	344	114	58	45
27	60	50	47	49	52	54	500	800	344	126	55	46
28	53	49	47	49	52	54	700	900	431	116	53	47
29	51	49	47	49	---	54	800	1000	429	100	51	48
30	53	49	47	49	---	54	850	1200	314	90	56	50
31	57	---	47	49	---	55	---	1250	---	84	57	---
TOTAL	1784	1615	1432	1489	1428	1656	5586	19180	22846	5670	2010	1445
MEAN	57.5	53.8	46.2	48.0	51.0	53.4	186	619	762	183	64.8	48.2
MAX	76	58	48	49	52	56	850	1250	1500	456	81	58
MIN	47	49	45	47	50	52	57	370	314	84	51	43
AC-FT	3540	3200	2840	2950	2830	3280	11080	38040	45320	11250	3990	2870

CAL YR 1980 TOTAL 131753 MEAN 360 MAX 2580 MIN 45 AC-FT 261300
WTR YR 1981 TOTAL 66141 MEAN 181 MAX 1500 MIN 43 AC-FT 131200

NOTE.--NO GAGE-HEIGHT RECORD APR. 19 TO JUNE 23, SEPT. 1-30.

09243700 MIDDLE CREEK NEAR OAK CREEK, CO

LOCATION.--Lat 40°23'08", long 106°59'33", in SW¼SW¼ sec.13, T.5 N., R.86 W., Routt County, Hydrologic Unit 14050001, on left bank 1.1 mi (1.77 km) above mouth of Foidel Creek and 13.5 mi (21.7 km) northwest of Oak Creek.

DRAINAGE AREA.--23.5 mi² (60.9 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1975 to current year.

GAGE.--Water-stage recorder. Datum of gage is 6,720 ft (2,050 m), National Geodetic Vertical Datum of 1929.

REMARKS.--Records good except those for winter period, which are poor.

AVERAGE DISCHARGE.--6 years, 3.03 ft³/s (0.086 m³/s), 2,200 acre-ft/yr (2.71 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 172 ft³/s (4.87 m³/s) May 11, 1980, gage height, 3.21 ft (0.978 m) from rating curve extended above 45 ft³/s (1.27 m³/s); no flow many days each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3.1 ft³/s (0.088 m³/s) at 2345 July 2, gage height, 1.22 ft (0.372 m), no peak above base of 15 ft³/s (0.42 m³/s); no flow Aug. 1 to Sept. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.03	.58	.49	.43	.40	1.1	1.7	.52	.60	1.4	.00	.00
2	.03	.56	.49	.42	.40	1.1	1.7	.58	.54	2.2	.00	.00
3	.04	.54	.49	.41	.45	1.2	1.8	.99	.69	2.6	.00	.00
4	.05	.54	.49	.40	.45	1.2	1.6	1.4	.75	2.1	.00	.00
5	.05	.55	.49	.40	.45	1.2	1.6	.93	.63	1.8	.00	.00
6	.06	.56	.49	.39	.50	1.3	1.7	1.3	.58	1.5	.00	.00
7	.07	.61	.50	.38	.50	1.3	1.7	1.4	.59	1.1	.00	.00
8	.07	.58	.50	.38	.50	1.3	1.7	1.2	.49	.60	.00	.00
9	.08	.54	.50	.37	.50	1.4	1.7	1.3	.46	.33	.00	.00
10	.09	.52	.50	.36	.50	1.4	1.6	1.1	.32	.28	.00	.00
11	.09	.52	.50	.35	.50	1.4	1.5	1.3	.45	.54	.00	.00
12	.10	.55	.50	.34	.50	1.4	1.6	1.5	.52	.71	.00	.00
13	.10	.54	.50	.33	.50	1.5	1.7	1.4	.59	.56	.00	.00
14	.12	.54	.50	.32	.50	1.5	1.6	1.2	.90	.35	.00	.00
15	.45	.54	.50	.31	.55	1.5	1.6	1.1	1.3	.18	.00	.00
16	.56	.53	.50	.30	.60	1.6	1.7	1.1	1.3	.08	.00	.00
17	.60	.53	.50	.30	.65	1.6	1.7	1.5	1.5	.09	.00	.00
18	.84	.52	.50	.29	.70	1.6	1.7	1.3	1.5	.14	.00	.00
19	.72	.52	.50	.28	.80	1.6	1.6	1.1	1.5	.12	.00	.00
20	.60	.51	.50	.28	.85	1.6	1.4	1.0	1.6	.03	.00	.00
21	.53	.51	.50	.29	.90	1.6	1.4	.73	1.4	.03	.00	.00
22	.53	.50	.50	.30	.95	1.6	1.7	.61	1.2	.02	.00	.00
23	.47	.50	.49	.30	.95	1.6	1.6	.81	1.2	.02	.00	.00
24	.45	.49	.48	.30	.95	1.6	1.3	.69	1.1	.02	.00	.00
25	.44	.49	.48	.30	.95	1.6	1.2	.69	1.2	.02	.00	.00
26	.48	.49	.47	.32	1.0	1.6	1.1	.66	1.2	.02	.00	.00
27	.60	.49	.46	.34	1.0	1.6	.94	.76	.85	.01	.00	.00
28	.58	.49	.46	.35	1.1	1.6	.88	.87	1.6	.01	.00	.00
29	.59	.49	.45	.35	---	1.6	.90	.76	2.0	.01	.00	.00
30	.62	.49	.44	.35	---	1.6	.64	.64	1.8	.01	.00	.00
31	.62	---	.43	.35	---	1.6	---	.65	---	.01	.00	---
TOTAL	10.66	15.82	15.10	10.59	18.60	45.4	44.56	31.09	30.36	16.89	.00	.00
MEAN	.34	.53	.49	.34	.66	1.46	1.49	1.00	1.01	.54	.000	.000
MAX	.84	.61	.50	.43	1.1	1.6	1.8	1.5	2.0	2.6	.00	.00
MIN	.03	.49	.43	.28	.40	1.1	.64	.52	.32	.01	.00	.00
AC-FT	21	31	30	21	37	90	88	62	60	34	.00	.00

CAL YR 1980 TOTAL 2643.69 MEAN 7.22 MAX 116 MIN .01 AC-FT 5240
WTR YR 1981 TOTAL 239.07 MEAN .65 MAX 2.6 MIN .00 AC-FT 474

NOTE.--NO GAGE-HEIGHT RECORD DEC. 11 TO MAR. 15.

09243700 MIDDLE CREEK NEAR OAK CREEK, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--September 1975 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: April 1976 to September 1981 (discontinued).
WATER TEMPERATURES: April 1976 to September 1981 (discontinued).

INSTRUMENTATION.--Water-quality monitor April 1976 to September 1981.

REMARKS.--Daily maximum and minimum specific-conductance data available in district office.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 1,880 micromhos May 29, 1981; minimum, 117 micromhos Aug. 10, 1978.
WATER TEMPERATURES: Maximum, 31.5°C July 31, 1976; minimum, freezing point on many days during winter months.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 1,880 micromhos May 29; minimum, 550 micromhos Mar. 3.
WATER TEMPERATURES: Maximum, 30.5°C July 31; minimum, freezing point on many days during winter months.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	HARD-NESS (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)
OCT										
02...	0955	.04	--	--	--	7.0	--	--	--	--
02...	1000	.04	760	770	7.6	7.0	9.2	340	75	36
30...	1100	.68	810	819	8.0	2.0	10.8	350	76	40
NOV										
25...	1105	.49	810	816	7.8	.5	10.9	350	76	37
DEC										
22...	1040	.50	775	794	7.8	.0	12.3	330	79	33
JAN										
20...	1045	.28	800	780	7.6	.0	11.9	370	86	37
FEB										
25...	1115	.98	660	620	8.0	.0	11.7	290	69	29
MAR										
31...	1050	1.6	655	666	8.4	2.0	12.8	280	66	27
APR										
29...	1115	.92	600	680	8.3	13.0	10.0	330	77	33
MAY										
27...	1145	.78	680	691	8.2	16.0	8.7	300	71	30
JUL										
01...	1035	1.4	666	666	8.3	20.0	7.6	310	72	31
29...	1025	.01	--	--	--	21.0	--	--	--	--
29...	1115	.01	735	731	8.1	21.0	7.9	320	71	35

DATE	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)
OCT									
02...	--	--	--	--	--	--	--	--	--
02...	42	1.0	3.5	250	180	8.1	.2	8.0	500
30...	51	1.2	3.3	290	150	8.5	.3	7.8	510
NOV									
25...	50	1.2	3.2	300	140	9.6	.2	8.1	503
DEC									
22...	47	1.1	2.8	230	170	5.5	.2	7.4	484
JAN									
20...	51	1.2	2.1	300	180	5.8	.3	8.4	552
FEB									
25...	37	.9	5.7	210	160	6.0	.2	8.2	446
MAR									
31...	33	.9	2.7	220	140	4.9	.2	5.6	412
APR									
29...	34	.8	3.0	280	120	4.7	.3	5.7	448
MAY									
27...	33	.8	2.8	220	130	4.1	.2	7.3	411
JUL									
01...	32	.8	3.1	260	120	3.8	.2	9.4	420
29...	--	--	--	--	--	--	--	--	--
29...	41	1.1	3.4	270	130	4.6	.2	12	488

09243700 MIDDLE CREEK NEAR OAK CREEK, CO--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	BORON, DIS-SOLVED (UG/L AS B)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)
OCT									
02...	--	--	--	--	--	--	--	--	--
02...	.68	.05	.02	.030	40	370	30	290	250
30...	.69	.94	.05	.040	70	650	10	140	70
NOV									
25...	.68	.67	.06	.000	60	180	<10	110	100
DEC									
22...	.66	.65	.15	.000	30	180	20	110	110
JAN									
20...	.66	.37	.28	.000	40	310	20	140	130
FEB									
25...	.60	1.2	.48	.060	10	1800	80	220	150
MAR									
31...	.56	1.8	.10	.000	30	460	20	130	110
APR									
29...	.61	1.1	.02	.080	30	740	<10	220	150
MAY									
27...	.56	.87	.04	.030	20	900	10	160	100
JUL									
01...	.58	1.6	.01	.150	40	1200	10	160	80
29...	--	--	--	--	--	--	--	--	--
29...	.63	.01	.00	.000	50	950	37	390	280

DATE	TIME	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL)	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS-SOLVED (UG/L AS AS)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD)	CADMIUM DIS-SOLVED (UG/L AS CD)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU)	COPPER, DIS-SOLVED (UG/L AS CU)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB)	LEAD, DIS-SOLVED (UG/L AS PB)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG)
OCT												
02...	1000	130	0	2	2	0	<1	7	4	3	2	.1
DEC												
22...	1040	50	20	--	--	--	--	--	--	3	2	--
APR												
29...	1115	590	8	1	1	0	<1	4	2	0	8	1.5
JUL												
29...	1115	290	20	--	--	--	--	--	--	5	0	--

DATE	MERCURY DIS-SOLVED (UG/L AS HG)	MOLYB-DENUM, TOTAL RECOV-ERABLE (UG/L AS MO)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI)	NICKEL, DIS-SOLVED (UG/L AS NI)	SELE-NIUM, TOTAL (UG/L AS SE)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN)	ZINC, DIS-SOLVED (UG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C)
OCT											
02...	.0	0	<10	0	1	0	0	20	<3	11	6.8
DEC											
22...	--	--	--	--	--	--	--	20	<3	13	14
APR											
29...	.0	47	<10	22	0	0	0	20	<3	8.3	7.8
JUL											
29...	--	--	--	--	--	--	--	20	14	5.2	7.7

09243700 MIDDLE CREEK NEAR OAK CREEK, CO-Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT					
02...	0955	.04	31	.00	--
30...	1100	.68	36	.07	--
NOV					
25...	1105	.49	28	.04	--
DEC					
22...	1040	.50	14	.02	--
JAN					
20...	1045	.28	31	.02	--
FEB					
25...	1115	.98	98	.26	--
MAR					
31...	1050	1.6	37	.16	--
APR					
29...	1115	.92	76	.19	--
MAY					
27...	1145	.78	135	.28	76
JUL					
01...	1035	1.4	99	.37	--
29...	1025	.01	51	.00	--
29...	1115	.01	87	.00	--

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	805	775	730	785		---	638	719	1730	619		
2	779	771	742	795		---	623	721	1560	594		
3	789	767	718	796		565	617	721	1600	586		
4	785	756	717	786		600	621	721	1800	589		
5	780	755	712	770		622	626	711	1660	600		
6	777	756	725	773		607	615	698	1340	607		
7	773	749	713	791		636	623	687	1150	605		
8	775	760	718	801		656	623	676	992	618		
9	779	749	751	810		655	624	675	837	624		
10	783	753	778	813		653	617	673	761	633		
11	787	752	785	822		652	625	668	702	632		
12	791	740	794	843		657	628	665	684	613		
13	799	729	803	856		657	625	676	687	635		
14	803	735	810	844		667	631	702	691	655		
15	835	762	794	---		650	645	669	686	651		
16	836	785	774	---		635	654	668	676	659		
17	810	824	777	---		603	650	664	670	657		
18	809	866	773	---		615	649	667	667	653		
19	805	905	759	---		635	652	662	666	675		
20	801	894	768	---		638	656	669	668	668		
21	789	927	760	---		645	660	675	669	680		
22	782	914	753	---		661	656	682	671	680		
23	785	772	758	---		653	655	683	663	---		
24	792	769	765	---		628	664	683	654	---		
25	794	760	752	---		623	670	674	648	---		
26	794	782	744	---		615	673	676	647	---		
27	772	802	750	---		611	670	733	651	---		
28	778	788	749	---		637	679	1590	636	---		
29	794	751	760	---		637	686	1790	642	---		
30	794	728	778	---		630	702	1710	636	---		
31	778	---	783	---		642	---	1670	---	---		
MEAN	792	786	758	806		634	645	815	891	633		

09243700 MIDDLE CREEK NEAR OAK CREEK, CO-Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	16.0	7.5	9.0	.5	.5	.5	.5	.0			---	---
2	16.0	6.5	8.0	.5	1.0	.5	.5	.0			---	---
3	16.0	5.5	7.0	1.0	3.0	.5	.5	.0			1.0	.0
4	16.0	5.5	9.0	4.0	3.0	.5	.5	.0			4.0	.0
5	16.0	5.5	10.0	1.0	1.0	.5	.5	.0			3.5	.0
6	16.0	6.0	8.0	1.0	1.5	.0	1.0	.0			4.5	.0
7	15.0	6.0	10.0	3.5	1.5	.0	.5	.0			3.0	.0
8	15.5	6.0	7.0	3.0	2.0	.0	.5	.0			4.5	.0
9	14.0	5.0	8.5	.5	.5	.0	.5	.0			5.5	.0
10	13.5	5.0	8.0	.5	.5	.0	.5	.0			6.5	.0
11	13.0	4.0	6.5	.5	.5	.0	.5	.0			3.5	.0
12	9.5	5.0	8.5	3.0	.0	.0	.5	.0			6.0	.0
13	11.0	7.0	5.5	2.0	.0	.0	.5	.0			7.0	.0
14	9.5	6.0	3.0	.5	.0	.0	.0	.0			8.5	.0
15	9.0	5.0	1.5	.5	.0	.0	---	---			8.5	.0
16	7.0	4.0	1.5	.5	.0	.0	---	---			7.5	.0
17	6.0	2.0	1.0	.5	.0	.0	---	---			4.5	.0
18	6.0	3.0	1.0	.5	.0	.0	---	---			8.0	.0
19	11.5	3.0	1.5	.5	.0	.0	---	---			8.0	.0
20	11.5	2.0	1.0	.5	.0	.0	---	---			4.5	2.0
21	11.0	2.0	1.0	.5	.0	.0	---	---			5.5	.5
22	10.0	2.5	1.0	.5	.5	.0	---	---			9.5	.0
23	8.0	1.5	.5	.5	.0	.0	---	---			9.0	1.0
24	7.0	.5	.5	.5	.0	.0	---	---			4.0	.5
25	7.5	.5	1.0	.5	.5	.0	---	---			9.5	.0
26	4.0	.5	.5	.5	1.0	.0	---	---			12.0	2.5
27	5.0	1.0	.5	.5	1.0	.0	---	---			10.0	3.0
28	3.5	.5	.5	.5	1.5	.0	---	---			7.0	1.5
29	5.5	.5	1.0	.5	.5	.0	---	---			6.0	1.0
30	7.5	.5	2.0	.5	.5	.0	---	---			3.0	.0
31	8.0	.5	---	---	.5	.0	---	---			8.5	.0
MONTH	16.0	.5	10.0	.5	3.0	.0	1.0	.0			12.0	.0

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	11.5	.0	21.5	8.0	21.5	10.5	23.0	16.0				
2	12.5	1.5	17.0	10.5	22.5	11.0	21.5	16.5				
3	6.0	2.0	11.5	8.5	17.0	13.5	25.5	15.5				
4	4.5	.0	17.0	7.0	21.0	12.0	26.0	15.0				
5	10.0	.0	16.0	7.5	23.0	12.5	27.5	15.0				
6	12.5	.5	13.5	8.5	23.5	12.5	29.0	14.5				
7	6.5	3.5	15.5	7.0	23.5	14.0	28.0	16.5				
8	8.5	2.0	9.5	6.5	24.5	14.0	29.0	15.0				
9	14.0	2.5	13.5	5.5	25.0	13.5	23.5	15.0				
10	15.5	4.0	15.5	5.5	24.0	14.0	26.0	14.5				
11	14.5	4.5	10.0	6.5	28.5	13.5	24.5	15.0				
12	14.0	4.0	12.0	4.5	27.5	12.5	26.5	16.0				
13	14.0	6.0	15.0	5.5	26.0	11.0	21.5	16.0				
14	14.0	3.5	15.0	6.5	19.0	9.0	28.0	15.0				
15	14.0	6.5	13.0	9.0	20.5	8.0	28.5	14.0				
16	13.0	6.0	10.5	8.0	23.5	7.5	22.0	15.0				
17	13.0	6.5	9.5	7.5	23.5	9.0	20.5	15.5				
18	14.0	6.5	13.0	7.0	22.5	9.5	27.0	13.5				
19	14.5	9.0	13.0	8.0	25.5	10.0	27.5	15.0				
20	13.0	6.5	12.0	9.0	25.5	11.0	26.5	12.5				
21	12.5	5.0	10.0	7.5	26.5	11.5	27.5	12.5				
22	12.0	5.5	11.5	6.5	27.5	11.5	27.0	12.0				
23	16.5	4.5	17.5	8.0	24.5	11.5	29.0	10.0				
24	18.5	6.0	18.0	7.5	27.0	12.0	26.5	12.0				
25	16.5	7.5	17.0	8.5	28.0	11.5	28.5	13.5				
26	17.5	7.0	17.0	10.0	26.5	14.0	23.0	13.5				
27	17.0	7.5	19.0	11.5	25.0	14.5	28.5	9.5				
28	19.0	8.5	19.0	12.0	22.0	15.5	28.5	9.0				
29	17.0	7.5	19.0	12.5	25.0	13.0	27.5	9.5				
30	21.0	8.5	22.5	11.0	27.0	14.5	25.0	10.5				
31	---	---	18.0	13.5	---	---	30.5	11.0				
MONTH	21.0	.0	22.5	4.5	28.5	7.5	30.5	9.0				
YEAR	30.5	.0										

09243800 FOIDEL CREEK NEAR OAK CREEK, CO

LOCATION.--Lat 40°20'45", long 107°05'04", in NW¼SW¼ sec.31, T.5 N., R.86 W., Routt County, Hydrologic Unit 14050001, on right bank 2.3 mi (3.7 km) downstream from Reservoir No. 1, 6.9 mi (11.1 km) upstream from mouth, and 8.7 mi (14 km) northwest of Oak Creek.

DRAINAGE AREA.--8.61 mi^2 (22.30 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1975 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 6,880 ft (2,110 m), from topographic map.

REMARKS.--Records good except for winter period, which is poor. Numerous beaver dams above station.

AVERAGE DISCHARGE.--6 years, 0.74 ft^3/s (0.021 m^3/s), 536 acre-ft/yr (661,000 m^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 55 ft^3/s (1.030 m^3/s) Apr. 21, 1980, gage height, 3.38 ft (1.030 m); no flow many days most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge observed, 1.8 ft^3/s (0.051 m^3/s) at 1400 Feb. 25, gage height, unknown, result of discharge measurement made during period of ice effect; no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.16	.14	.01	.00	1.3	.53	.20	.15	.00	.00	.09
2	.01	.16	.14	.01	.00	1.2	.61	.14	.17	.00	.03	.13
3	.01	.16	.14	.01	.00	1.0	.72	.26	.23	.00	.03	.12
4	.02	.16	.14	.01	.00	.60	.59	.50	.22	.00	.04	.10
5	.02	.16	.10	.01	.00	.60	.58	.38	.17	.00	.05	.03
6	.02	.16	.10	.01	.00	.60	.59	.38	.15	.00	.05	.08
7	.02	.15	.10	.01	.00	.60	.81	.44	.16	.00	.05	.03
8	.03	.15	.08	.01	.00	.65	.76	.47	.13	.00	.04	.03
9	.03	.14	.08	.01	.00	.65	.73	.39	.09	.00	.04	.01
10	.03	.14	.06	.01	.00	.65	1.3	.37	.12	.00	.03	.00
11	.04	.14	.06	.01	.00	.65	1.5	.41	.15	.00	.03	.00
12	.04	.12	.05	.01	.00	.65	1.4	.50	.15	.00	.04	.01
13	.06	.12	.05	.01	.05	.65	1.3	.44	.16	.00	.03	.00
14	.08	.17	.04	.00	.10	.65	1.3	.35	.15	.00	.01	.02
15	.08	.14	.04	.00	.20	.70	1.2	.27	.14	.00	.02	.00
16	.09	.14	.03	.00	.30	.75	1.1	.19	.13	.00	.01	.00
17	.12	.14	.03	.00	.20	.75	.89	.31	.11	.00	.01	.00
18	.13	.14	.02	.00	.20	.82	.75	.32	.10	.08	.00	.00
19	.12	.14	.02	.00	.20	.83	.67	.31	.06	.07	.00	.09
20	.18	.14	.01	.00	.20	.81	.67	.24	.04	.06	.00	.07
21	.12	.14	.01	.00	.60	.68	.63	.24	.02	.05	.01	.11
22	.10	.14	.01	.00	.80	.59	.68	.27	.01	.05	.02	.09
23	.10	.14	.01	.00	1.2	.78	.59	.29	.00	.04	.01	.06
24	.11	.14	.01	.00	1.4	.79	.42	.25	.00	.02	.07	.05
25	.12	.14	.01	.00	1.8	.72	.32	.24	.00	.02	.05	.02
26	.14	.10	.01	.00	1.8	.54	.30	.18	.00	.02	.03	.01
27	.15	.08	.01	.00	1.8	.81	.26	.18	.00	.01	.05	.01
28	.16	.10	.01	.05	1.5	.65	.32	.19	.00	.00	.04	.01
29	.17	.14	.01	.10	---	.48	.20	.17	.00	.00	.10	.01
30	.17	.16	.01	.10	---	.38	.17	.13	.00	.00	.11	.00
31	.17	---	.01	.05	---	.44	---	.14	---	.01	.06	---
TOTAL	2.64	4.21	1.54	.43	12.35	21.97	21.89	9.15	2.81	.43	1.06	1.18
MEAN	.085	.14	.050	.014	.44	.71	.73	.30	.094	.014	.034	.039
MAX	.18	.17	.14	.10	1.8	1.3	1.5	.50	.23	.08	.11	.13
MIN	.00	.08	.01	.00	.00	.38	.17	.13	.00	.00	.00	.00
AC-FT	5.2	8.4	3.1	.9	24	44	43	18	5.6	.9	2.1	2.3

CAL YR 1980 TOTAL 737.44 MEAN 2.01 MAX 33 MIN .00 AC-FT 1460
WTR YR 1981 TOTAL 79.66 MEAN .22 MAX 1.8 MIN .00 AC-FT 158

NOTE.--NO GAGE-HEIGHT RECORD NOV. 26 TO MAR. 17.

09243800 FOIDEL CREEK NEAR OAK CREEK, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--September 1975 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: May 1976 to current year.
WATER TEMPERATURES: May 1976 to current year.

INSTRUMENTATION.--Water-quality monitor since May 1976.

REMARKS.--Daily maximum and minimum specific-conductance data available in district office.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 1,410 micromhos Aug. 4, 5, 1981; minimum 200 micromhos Apr. 21, 22, 1980.
WATER TEMPERATURES: Maximum, 27.5°C July 11, 1980; minimum, 0.0°C during winter period when flowing each year.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 1,410 micromhos Aug. 4, 5; minimum, 696 micromhos Feb. 25.
WATER TEMPERATURES: Maximum, 24.0°C June 8, 9; minimum, 0.0°C on several days during November to March.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	HARD-NESS (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)
OCT										
02...	1210	.01	--	--	--	10.0	--	--	--	--
02...	1215	.01	1120	1130	7.4	9.5	6.8	550	130	54
30...	1410	.17	1030	1030	7.6	5.0	8.2	520	110	59
NOV										
25...	1400	.14	1040	1050	7.5	2.0	10.3	570	130	59
DEC										
22...	1600	.01	1140	1140	7.1	1.0	8.6	560	130	56
FEB										
25...	1400	1.8	1140	1090	7.9	.5	10.9	520	120	54
MAR										
31...	1300	.38	1020	1020	8.1	6.0	13.8	490	110	53
APR										
29...	1130	.21	--	--	--	--	--	--	--	--
29...	1330	.21	1070	1110	8.1	17.0	9.2	530	110	63
MAY										
27...	1330	.18	1080	1110	8.1	17.0	10.8	510	100	62
JUL										
01...	1215	.01	1200	1220	7.5	17.0	7.5	580	130	63
29...	1525	.01	1250	1230	7.7	20.5	6.0	570	120	65
AUG										
27...	0900	.05	1330	1300	7.6	11.0	3.6	580	122	67
SEP										
29...	1115	.01	1300	1570	7.6	11.0	5.0	580	120	68

DATE	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)
OCT									
02...	--	--	--	--	--	--	--	--	--
02...	32	.6	3.3	330	270	11	.2	11	710
30...	34	.7	2.7	360	230	6.7	.3	11	670
NOV									
25...	35	.6	2.8	330	290	6.5	.2	11	733
DEC									
22...	34	.6	2.1	350	270	8.2	.3	8.5	721
FEB									
25...	37	.7	5.7	200	270	10	.3	9.2	768
MAR									
31...	37	.7	3.6	230	290	9.4	.2	4.8	663
APR									
29...	--	--	--	--	--	--	--	--	--
29...	45	.8	4.8	220	350	16	.3	2.8	763
MAY									
27...	51	1.0	4.5	270	330	13	.2	3.2	736
JUL									
01...	51	.9	3.1	360	330	16	.2	14	825
29...	74	1.5	4.7	370	310	16	.2	12	825
AUG									
27...	81	1.6	5.1	410	340	16	.3	11	890
SEP									
29...	87	1.7	4.4	390	320	23	.3	12	870

09243800 FOIDEL CREEK NEAR OAK CREEK, CO--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	BORON, DIS-SOLVED (UG/L AS B)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)
OCT									
02...	--	--	--	--	--	--	--	--	--
02...	.97	.02	.02	.000	60	700	10	310	270
30...	.91	.31	.00	.000	60	290	20	100	90
NOV									
25...	1.0	.28	.00	.000	60	320	10	140	120
DEC									
22...	.98	.02	.13	.010	40	650	20	470	450
FEB									
25...	1.0	3.7	32	.010	20	770	30	260	250
MAR									
31...	.90	.68	3.8	.000	40	710	20	150	120
APR									
29...	--	--	--	--	--	--	--	--	--
29...	1.0	.43	8.7	--	70	380	20	ND	100
MAY									
27...	1.0	.36	2.2	.030	50	840	70	130	120
JUL									
01...	1.1	.02	.02	.120	70	880	30	1500	1500
29...	1.1	.02	.00	.000	90	630	21	360	280
AUG									
27...	1.2	.12	.10	.010	90	1100	21	360	330
SEP									
29...	1.2	.02	.15	.030	80	670	32	350	310

DATE	TIME	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL)	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS-SOLVED (UG/L AS AS)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD)	CADMIUM DIS-SOLVED (UG/L AS CD)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU)	COPPER, DIS-SOLVED (UG/L AS CU)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB)	LEAD, DIS-SOLVED (UG/L AS PB)
OCT											
02...	1215	110	0	2	1	0	<1	6	4	2	2
DEC											
22...	1600	70	10	--	--	--	--	--	--	1	0
APR											
29...	1330	160	20	1	1	0	<1	4	3	1	3
JUL											
29...	1525	150	20	--	--	--	--	--	--	5	0

DATE	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG)	MERCURY DIS-SOLVED (UG/L AS HG)	MOLYB-DENUM, TOTAL RECOV-ERABLE (UG/L AS MO)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI)	SELE-NIUM, TOTAL (UG/L AS SE)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN)	ZINC, DIS-SOLVED (UG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C)
OCT											
02...	.2	.0	0	<10	4	0	0	20	6	--	18
DEC											
22...	--	--	--	--	--	--	--	20	3	28	24
APR											
29...	.1	.0	76	<10	4	0	0	10	8	15	7.6
JUL											
29...	--	--	--	--	--	--	--	10	4	11	9.2

09243800 FOIDEL CREEK NEAR OAK CREEK, CO--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)
OCT				
02...	1210	.01	83	.00
30...	1410	.17	52	.02
NOV				
25...	1400	.14	51	.02
DEC				
22...	1600	.01	39	.00
FEB				
25...	1400	1.8	44	.21
MAR				
31...	1300	.38	39	.04
APR				
29...	1130	.21	50	.03
29...	1330	.21	49	.03
MAY				
27...	1330	.18	62	.03
JUL				
01...	1215	.01	107	.00
29...	1525	.01	129	.00
AUG				
27...	0900	.05	110	.01
SEP				
29...	1115	.01	39	.00

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	1000	921	1090	---	940	979	1070	1090	---	---	
2	1060	994	906	1090	---	888	999	1080	1100	---	1340	
3	1070	991	896	1090	---	970	1010	1080	1090	---	1360	
4	1070	993	884	1080	---	942	965	1080	1080	---	1400	
5	1070	984	893	1080	---	969	973	1090	1080	---	1380	
6	1070	986	894	1070	---	961	981	1090	1080	---	1330	
7	1080	972	929	1080	---	929	1000	1070	1080	---	1310	
8	1090	978	1100	1120	---	947	1010	1080	1080	---	1310	
9	1170	971	1140	1110	---	964	998	1100	1090	---	1300	
10	1100	968	1130	1110	---	956	1020	1100	1090	---	1300	
11	1100	967	1140	1100	---	974	1060	1090	1090	---	1310	
12	1110	970	1140	1120	---	991	1090	1080	1100	---	1300	
13	1100	945	1140	1140	1290	981	1100	1090	1110	---	1290	
14	1090	929	1140	---	1140	979	1090	1090	1100	---	1280	
15	1070	933	1130	---	1010	979	1130	1070	1100	---	1280	
16	1050	930	1110	---	954	959	1140	1100	1100	---	1280	
17	1030	940	1100	---	1040	938	1130	1090	1100	---	1290	
18	1020	960	1090	---	1030	913	1120	1090	1100	1230	---	
19	1030	970	1070	---	873	945	1130	1090	1110	1250	---	
20	1020	981	1050	---	950	957	1110	1120	1110	1260	---	
21	1030	1010	1030	---	994	950	1110	1100	1130	1280	1300	
22	1040	1030	1090	---	998	1000	1070	1100	1130	1290	1310	
23	1040	1030	1160	---	973	1010	1100	1100	---	1290	1330	
24	1060	998	1170	---	962	976	1090	1100	---	1300	1320	
25	1050	989	1190	---	1000	967	1090	1090	---	1310	1330	
26	1040	994	1180	---	948	998	1090	1100	---	1300	1330	
27	1060	994	1160	---	916	991	1080	1100	---	1300	1300	
28	1070	997	1150	1210	923	976	1070	1090	---	---	1300	
29	1090	972	1130	1190	---	960	1060	1090	---	---	---	
30	1060	943	1110	1190	---	945	1060	1080	---	---	---	
31	992	---	1100	1170	---	975	---	1090	---	1300	---	
MEAN	1060	977	1070	1120	1000	962	1060	1090	1100	1280	1320	

WTR YR 1981 MEAN 1080 MAX 1400 MIN 873

09243800 FOIDEL CREEK NEAR OAK CREEK, CO--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	---	---	6.0	2.5	1.0	.5	2.0	1.0	---	---	1.0	.0
2	---	---	5.5	3.0	1.0	.5	2.0	1.0	---	---	1.0	.0
3	---	---	5.5	3.0	1.5	.5	3.5	1.0	---	---	1.0	.0
4	---	---	6.5	4.5	3.0	.5	2.0	1.5	---	---	1.0	.0
5	---	---	6.5	3.0	1.0	.0	2.0	1.5	---	---	1.0	.0
6	---	---	5.5	3.0	.5	.0	1.5	1.0	---	---	1.0	.0
7	---	---	7.0	4.0	1.0	.0	1.5	.0	---	---	1.5	.0
8	---	---	5.5	4.0	1.0	.0	1.5	1.0	---	---	2.0	.0
9	---	---	5.5	3.0	1.0	.0	1.5	.5	---	---	3.0	.5
10	---	---	5.5	2.5	1.5	.5	1.5	1.0	---	---	4.0	1.0
11	---	---	4.5	2.5	1.5	.0	1.5	1.0	---	---	4.0	.5
12	---	---	6.0	3.0	2.0	.0	2.0	.0	---	---	4.5	1.0
13	---	---	4.5	2.5	3.0	.0	1.5	.5	.5	.0	5.5	1.5
14	---	---	2.5	2.0	2.5	.0	---	---	.5	.0	6.0	2.0
15	---	---	2.5	.5	3.0	1.0	---	---	.5	.0	6.5	2.0
16	---	---	2.5	1.0	4.0	1.0	---	---	.5	.0	6.0	3.0
17	---	---	4.0	.5	2.5	1.0	---	---	.5	.0	5.0	3.5
18	---	---	2.0	.0	2.5	1.0	---	---	.5	.0	5.5	3.0
19	---	---	2.0	.0	2.5	1.0	---	---	1.5	.0	5.5	3.0
20	---	---	2.5	.0	3.0	1.5	---	---	.5	.0	5.5	4.0
21	---	---	2.5	.0	3.0	1.5	---	---	.5	.0	4.5	3.5
22	---	---	1.5	.0	2.5	1.5	---	---	.5	.5	7.0	3.0
23	---	---	2.0	.5	2.5	2.0	---	---	1.5	.0	7.5	4.5
24	---	---	2.0	.5	2.5	1.5	---	---	1.0	.0	6.0	4.5
25	---	---	1.5	.5	2.0	1.5	---	---	1.0	.0	7.0	3.0
26	---	---	1.0	.5	2.0	1.5	---	---	.5	.0	10.0	5.0
27	---	---	.5	.5	2.5	1.5	---	---	1.0	.5	9.5	7.0
28	---	---	1.0	.5	2.5	1.5	1.5	1.0	1.0	.0	7.5	6.0
29	---	---	1.5	.5	2.0	1.0	2.0	.5	---	---	6.0	5.0
30	---	---	2.0	.5	2.0	1.5	1.5	.5	---	---	5.5	4.0
31	5.5	2.5	---	---	2.0	1.0	1.5	.5	---	---	7.0	3.5
MONTH	5.5	2.5	7.0	.0	4.0	.0	3.5	.0	1.5	.0	10.0	.0

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	8.0	4.0	20.0	11.0	21.0	14.0	---	---	---	---	17.0	12.5
2	9.0	5.5	17.5	14.0	22.0	15.0	---	---	20.0	16.0	15.5	13.5
3	8.0	6.0	14.0	11.0	19.0	17.0	---	---	19.5	16.5	17.5	13.0
4	5.5	4.5	17.0	10.0	22.0	15.5	---	---	20.0	17.0	18.0	13.5
5	7.0	4.0	16.5	10.0	23.0	17.0	---	---	19.0	16.5	16.0	14.5
6	8.0	4.5	15.0	11.5	23.0	17.0	---	---	18.5	16.0	17.0	16.0
7	7.5	6.0	17.0	10.0	23.5	18.0	---	---	18.5	16.0	17.0	15.0
8	6.5	5.0	13.0	9.5	24.0	18.0	---	---	18.0	15.5	16.5	14.0
9	8.0	5.0	12.5	8.0	24.0	18.0	---	---	18.5	16.0	16.0	13.0
10	9.5	6.5	15.5	7.5	23.0	18.0	---	---	17.5	15.5	---	---
11	9.5	7.0	13.0	9.0	23.0	17.0	---	---	16.0	14.5	---	---
12	9.0	7.0	12.5	7.0	23.0	19.0	---	---	16.0	15.0	16.0	12.5
13	8.5	7.0	15.5	8.0	21.5	19.0	---	---	16.0	14.5	---	---
14	7.5	6.5	15.5	9.0	19.5	16.5	---	---	16.0	14.5	17.5	13.0
15	12.5	7.0	14.0	11.0	18.0	15.0	---	---	16.0	15.0	---	---
16	14.0	7.5	13.0	10.5	18.5	14.0	---	---	16.0	14.5	---	---
17	14.5	8.0	11.0	8.0	19.0	15.5	---	---	16.5	14.0	---	---
18	15.0	8.5	15.5	10.0	18.5	16.0	18.5	15.5	---	---	---	---
19	15.5	10.0	15.0	8.0	20.0	16.0	19.5	17.5	---	---	16.0	10.5
20	13.5	8.5	15.5	12.0	20.5	17.0	19.5	17.0	---	---	14.0	10.5
21	12.5	8.0	13.5	10.5	20.0	17.5	19.5	17.0	16.5	14.5	15.0	11.0
22	11.0	7.5	12.5	10.0	20.0	17.0	19.0	16.5	16.0	14.0	15.5	12.5
23	14.5	7.0	16.0	10.5	---	---	19.0	16.5	16.0	14.0	16.0	13.0
24	15.0	8.5	17.0	10.5	---	---	19.5	16.5	15.5	14.0	15.0	12.0
25	16.0	9.5	17.5	12.0	---	---	20.0	17.0	16.0	13.5	15.0	12.5
26	17.5	9.5	17.0	14.0	---	---	19.0	17.0	16.5	14.5	14.5	11.5
27	17.0	10.0	19.5	14.5	---	---	18.0	15.5	18.0	14.5	14.5	11.0
28	18.0	10.5	20.0	15.5	---	---	---	---	18.0	14.0	14.0	10.0
29	18.5	10.5	21.0	15.5	---	---	---	---	16.0	14.5	14.0	10.0
30	19.5	7.5	21.5	15.0	---	---	---	---	18.0	14.0	---	---
31	---	---	19.0	12.0	---	---	22.0	15.5	16.0	14.0	---	---
MONTH	19.5	4.0	21.5	7.0	24.0	14.0	22.0	15.5	20.0	13.5	18.0	10.0
YEAR	24.0	.0										

09243900 FOIDEL CREEK AT MOUTH, NEAR OAK CREEK, CO

LOCATION.--Lat 40°23'25", long 106°59'39", in SE¼SE¼ sec.14, T.5 N., R.86 W., Routt County, Hydrologic Unit 14050001, on left bank 0.9 mi (1.4 km) upstream from mouth and 13.6 mi (21.9 km) northwest of Oak Creek.

DRAINAGE AREA.--17.5 mi² (45.3 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1975 to September 1981 (discontinued).

REVISED RECORDS.--WDR CO-78-3: 1976 (M), 1976.

GAGE.--Water-stage recorder. Altitude of gage is 6,730 ft (2,051 m), from topographic map.

REMARKS.--Records good except those for winter period, which are poor.

AVERAGE DISCHARGE.--6 years, 1.86 ft³/s (0.053 m³/s), 1,350 acre-ft/yr (1.66 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 90 ft³/s (2.55 m³/s) Apr. 22, 1980, gage height, 5.18 ft (1.579 m); no flow many days each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge observed, 5.1 f³/s (0.144 m³/s) at 1230 Feb. 26, result of discharge measurement made during period of ice affect; no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.32	.37	.14	.01	2.0	1.1	.16	.26	.00	.00	.00
2	.00	.30	.33	.14	.01	2.0	2.3	.20	.24	.00	.00	.00
3	.00	.30	.41	.13	.01	2.0	2.5	.62	.19	.00	.00	.00
4	.00	.30	.50	.12	.01	1.0	2.0	1.5	.19	.00	.00	.00
5	.00	.30	.52	.11	.01	1.0	1.7	1.2	.16	.00	.00	.00
6	.00	.28	.53	.10	.01	1.0	1.5	1.1	.13	.00	.00	.00
7	.00	.30	.57	.10	.01	1.0	1.5	1.1	.09	.00	.00	.00
8	.00	.31	.56	.09	.00	1.0	1.4	.93	.07	.00	.00	.00
9	.00	.30	.56	.08	.00	1.0	1.3	.99	.03	.00	.00	.00
10	.30	.26	.52	.07	.00	1.0	1.3	.81	.00	.00	.00	.00
11	.16	.27	.50	.07	.05	1.0	1.1	.81	.00	.00	.00	.00
12	.06	.27	.48	.06	.10	1.1	1.0	1.0	.00	.00	.00	.00
13	.06	.48	.45	.05	.30	1.2	.92	1.0	.00	.00	.00	.00
14	.14	.51	.43	.04	.50	1.2	.78	.86	.00	.00	.00	.00
15	.11	.38	.40	.04	1.0	1.1	.70	.66	.00	.00	.00	.00
16	.14	.33	.38	.03	1.4	1.3	.66	.60	.00	.00	.00	.00
17	.22	.27	.35	.02	1.6	1.5	.63	.85	.00	.01	.00	.00
18	.30	.23	.32	.02	1.8	1.4	.57	.88	.00	.00	.00	.00
19	.32	.22	.30	.02	2.1	1.3	.50	.71	.00	.00	.00	.00
20	.24	.21	.27	.02	2.3	1.4	.43	.60	.00	.00	.00	.00
21	.23	.22	.25	.02	2.6	1.4	.35	.56	.00	.00	.00	.00
22	.36	.20	.22	.02	2.8	1.4	.34	.52	.00	.00	.00	.00
23	.23	.24	.21	.02	3.0	1.3	.37	.62	.00	.00	.00	.00
24	.11	.30	.20	.02	3.1	1.3	.37	.55	.00	.00	.00	.00
25	.10	.32	.20	.02	3.2	1.3	.35	.52	.00	.00	.00	.00
26	.16	.37	.19	.01	5.1	2.2	.31	.51	.00	.00	.00	.00
27	.23	.31	.18	.01	3.0	2.4	.25	.59	.00	.00	.00	.00
28	.30	.27	.17	.01	3.0	2.0	.19	1.0	.00	.00	.00	.00
29	.27	.27	.17	.01	---	1.8	.16	.51	.00	.00	.00	.00
30	.30	.36	.16	.01	---	1.4	.16	.35	.00	.00	.00	.00
31	.32	---	.15	.01	---	1.1	---	.29	---	.00	.00	---
TOTAL	4.66	9.00	10.85	1.61	37.02	43.1	26.74	22.60	1.36	.01	.00	.00
MEAN	.15	.30	.35	.052	1.32	1.39	.89	.73	.045	.000	.000	.000
MAX	.36	.51	.57	.14	5.1	2.4	2.5	1.5	.26	.01	.00	.00
MIN	.00	.20	.15	.01	.00	1.0	.16	.16	.00	.00	.00	.00
AC-FT	9.2	18	22	3.2	73	85	53	45	2.7	.02	.00	.00

CAL YR 1980 TOTAL 1605.13 MEAN 4.39 MAX 76 MIN .00 AC-FT 3180
WTR YR 1981 TOTAL 156.95 MEAN .43 MAX 5.1 MIN .00 AC-FT 311

09243900 FOIDEL CREEK AT MOUTH, NEAR OAK CREEK, CO--CONTINUED

WATER-QUALITY RECORDS

PERIOD OF RECORD.--April 1976 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: April 1976 to September 1981 (discontinued).
WATER TEMPERATURE: April 1976 to September 1981 (discontinued).
SUSPENDED SEDIMENT DISCHARGE: April 1976 to September 1981 (discontinued).

INSTRUMENTATION.--Water-quality monitor since April 1976.

REMARKS.-- Daily maximum and minimum specific-conductance data available in district office.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 3,520 micromhos Aug. 10, 11, 1980; minimum, 255 micromnos July 1, 1980.
WATER TEMPERATURES: Maximum, 28.5°C July 22, 1980; minimum, 0.0°C several days during winter period each year.
SEDIMENT CONCENTRATIONS: Maximum daily, 3,650 mg/L Apr. 2, 1981; no flow many days most years.
SEDIMENT LOADS: Maximum daily, 702 tons (637 t) Apr. 23, 1980; no flow many days most years.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 2,460 micromhos Oct. 12; minimum, 530 micromhos Feb. 28.
WATER TEMPERATURES: Maximum, 27.0°C June 5, 6; minimum, 0.0°C several days during November to April.
SEDIMENT CONCENTRATIONS: Maximum daily, 3,650 mg/L Apr. 2; minimum not determined.
SEDIMENT LOADS: Maximum daily, 37 tons (34 t) Apr. 2; minimum, 0.00 ton (0.00 t) many days during year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	SPECIFIC CONDUCTANCE LAB (UMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	OXYGEN, DISSOLVED (MG/L)	HARDNESS (MG/L AS CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)
OCT										
02...	1040	.01	1930	1930	7.7	8.0	10.0	980	210	110
30...	1230	.35	1650	1630	7.7	6.0	13.8	770	150	95
NOV										
25...	1305	.34	1600	1620	7.7	3.0	13.6	760	160	87
DEC										
03...	1600	.45	--	--	--	2.0	--	--	--	--
09...	0950	.56	--	--	--	.5	--	--	--	--
16...	1110	.38	--	--	--	.5	--	--	--	--
22...	1220	.22	1560	1580	7.6	.5	12.7	770	180	79
JAN										
07...	1205	.10	--	--	--	1.0	--	--	--	--
20...	1230	.02	1400	1750	7.6	.0	12.2	700	170	67
FEB										
25...	1230	3.2	1040	982	7.8	.5	10.3	480	110	51
26...	1509	4.0	--	--	--	.0	--	--	--	--
MAR										
06...	1050	3.7	760	--	7.9	1.0	--	--	--	--
16...	1430	1.2	1050	--	7.8	5.5	--	--	--	--
31...	1220	1.1	1350	1370	8.2	4.0	10.8	600	130	66
APR										
08...	1100	1.3	1200	--	--	7.0	--	--	--	--
15...	1124	.73	--	--	--	13.0	--	--	--	--
29...	1230	.19	1330	1330	8.2	16.0	9.2	590	120	71
MAY										
07...	1157	1.4	--	--	--	14.0	--	--	--	--
27...	1235	.02	1310	1340	8.1	18.0	8.2	610	130	69

09243900 FOIDEL CREEK AT MOUTH, NEAR OAK CREEK, CO--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)
OCT									
02...	100	1.4	5.8	270	890	7.6	.2	3.4	1500
30...	96	1.5	4.1	310	640	16	.3	3.3	1200
NOV									
25...	88	1.4	3.5	330	580	15	.3	4.5	1140
DEC									
03...	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--
22...	80	1.3	2.8	340	570	15	.3	6.5	1150
JAN									
07...	--	--	--	--	--	--	--	--	--
20...	65	1.1	2.5	320	520	9.8	.3	8.5	1040
FEB									
25...	50	1.0	7.3	220	360	13	.2	7.8	749
26...	--	--	--	--	--	--	--	--	--
MAR									
06...	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--
31...	72	1.3	3.5	280	470	14	.2	3.9	938
APR									
08...	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--
29...	73	1.3	3.5	280	470	16	.3	2.8	933
MAY									
07...	--	--	--	--	--	--	--	--	--
27...	72	1.3	3.8	330	430	16	.2	5.3	929

DATE	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	BORON, DIS-SOLVED (UG/L AS B)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)
OCT									
02...	2.0	.04	1.4	.000	80	790	10	400	320
30...	1.6	1.1	1.3	.000	90	540	30	610	610
NOV									
25...	1.6	1.1	1.6	.000	70	490	10	810	770
DEC									
03...	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--
22...	1.6	.68	1.8	.040	40	510	30	800	750
JAN									
07...	--	--	--	--	--	--	--	--	--
20...	1.4	.86	.93	.000	40	360	10	1300	1200
FEB									
25...	1.0	6.5	3.8	.070	30	2300	90	430	390
26...	--	--	--	--	--	--	--	--	--
MAR									
06...	--	--	--	--	--	7300	--	510	--
16...	--	--	--	--	--	6600	--	450	--
31...	1.3	2.8	2.2	.000	50	3600	20	360	260
APR									
08...	--	--	--	--	--	5900	--	290	--
15...	--	--	--	--	--	--	--	--	--
29...	1.3	.48	1.7	.000	60	2600	<10	410	290
MAY									
07...	--	--	--	--	--	--	--	--	--
27...	1.3	2.1	.79	.040	60	2100	20	380	290

09243900 FOIDEL CREEK AT MOUTH, NEAR OAK CREEK, CO--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL)	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DISSOLVED (UG/L AS AS)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	COBALT, TOTAL RECOVERABLE (UG/L AS CO)	COPPER, TOTAL RECOVERABLE (UG/L AS CU)	LEAD, TOTAL RECOVERABLE (UG/L AS PB)	LEAD, DISSOLVED (UG/L AS PB)
OCT												
02...	1040	270	0	2	1	0	<1	--	--	4	5	2
DEC												
22...	1220	70	10	--	--	--	--	--	--	--	2	2
MAR												
06...	1050	5200	--	--	--	1	--	16	6	12	17	--
16...	1430	4500	--	--	--	0	--	10	5	8	2	--
APR												
08...	1100	1000	--	--	--	0	--	11	2	8	3	--
29...	1230	2200	20	1	1	0	<1	--	--	7	0	3

DATE	MERCURY TOTAL RECOVERABLE (UG/L AS HG)	MERCURY DISSOLVED (UG/L AS HG)	MOLYBDENUM, TOTAL RECOVERABLE (UG/L AS MO)	MOLYBDENUM, DISSOLVED (UG/L AS MO)	NICKEL, TOTAL RECOVERABLE (UG/L AS NI)	SELENIUM, TOTAL (UG/L AS SE)	SELENIUM, DISSOLVED (UG/L AS SE)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	ZINC, DISSOLVED (UG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)	CARBON, ORGANIC DISSOLVED (MG/L AS C)
OCT											
02...	.0	.0	0	<10	5	1	1	10	<3	14	12
DEC											
22...	--	--	--	--	--	--	--	60	<3	26	23
MAR											
06...	.1	--	2	--	9	--	--	50	--	--	--
16...	--	--	4	--	6	--	--	30	--	--	--
APR											
08...	--	--	1	--	7	--	--	40	--	--	--
29...	.1	.0	73	<10	8	0	1	20	<3	16	15

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SEDIMENT, SUSPENDED (MG/L)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT				
02...	1040	.01	116	--
30...	1230	.35	54	--
NOV				
25...	1305	.34	81	--
DEC				
03...	1600	.45	118	--
09...	0950	.56	76	--
16...	1110	.38	101	--
22...	1220	.22	75	--
JAN				
07...	1205	.10	49	--
20...	1230	.02	29	--
FEB				
25...	1230	3.2	876	--
FEB				
26...	1509	4.0	166	--
MAR				
06...	1050	3.7	865	77
16...	1430	1.2	246	86
31...	1220	1.1	205	--
APR				
08...	1100	1.3	236	91
15...	1124	.73	193	--
29...	1230	.19	180	--
MAY				
07...	1157	1.4	122	--
27...	1235	.82	331	47

09243900 FOIDEL CREEK AT MOUTH, NEAR OAK CREEK, CO--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	1550	1480	1340	1310	642	---	1310	1370	---		
2	---	1520	1470	1390	1290	673	---	1290	1400	---		
3	---	1500	1410	1400	1370	772	---	1240	1300	---		
4	---	1490	1400	1340	1050	854	---	1270	1260	---		
5	---	1490	1340	1350	924	851	---	1310	1300	---		
6	---	1490	1360	1350	917	795	---	1230	1270	---		
7	---	1490	1360	1340	952	872	---	1270	1220	---		
8	---	1480	1360	1330	---	997	1260	1290	1340	---		
9	---	1500	1430	1330	---	969	1260	1250	---	---		
10	1860	1500	1490	1320	---	921	1270	1250	---	---		
11	2270	1500	1510	1330	---	878	1270	1240	---	---		
12	2430	1480	1500	1280	---	---	1220	1230	---	---		
13	2370	1460	---	1360	---	---	1230	1250	---	---		
14	2170	1490	---	1350	---	---	1260	1260	---	---		
15	2040	1520	---	1330	---	---	1280	1280	---	---		
16	1970	1560	---	1330	---	1080	1270	1300	---	---		
17	1880	1630	1540	1330	---	1040	1280	1230	---	1100		
18	1780	1690	1500	1310	---	1160	1300	1310	---	---		
19	1960	1730	1480	1310	---	1150	1310	1370	---	---		
20	1930	1740	1490	1300	---	1150	1320	1350	---	---		
21	1750	1700	1530	1320	---	1180	1300	1340	---	---		
22	1690	1680	1500	1300	---	---	1270	1340	---	---		
23	1620	1640	1490	1250	---	---	1300	1280	---	---		
24	1610	1590	---	1230	---	---	1290	1330	---	---		
25	1620	1600	1480	1200	---	---	1290	1280	---	---		
26	1510	1570	1460	1230	793	---	1300	1270	---	---		
27	1550	1560	1450	1210	810	---	1310	1260	---	---		
28	1560	1600	1460	1170	615	---	1300	1190	---	---		
29	1560	1550	1430	1160	---	---	1320	1430	---	---		
30	1550	1470	1410	1190	---	---	1320	1420	---	---		
31	1560	---	1350	1180	---	---	---	1380	---	---		

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	---	---	7.5	2.0	1.0	.5	1.0	.0	1.5	.5	.5	.0
2	---	---	7.0	2.[illegible]	2.0	.5	1.5	.0	1.5	.0	.5	.0
3	---	---	6.5	2.5	3.0	.5	1.0	.0	.0	.0	.0	.0
4	---	---	8.0	5.0	2.5	.5	1.5	.0	.0	.0	1.5	.0
5	---	---	9.0	3.0	1.5	.5	1.0	.0	.0	.0	1.0	.0
6	---	---	7.5	3.0	2.0	.5	1.0	.0	.0	.0	2.0	.0
7	---	---	9.0	4.5	2.0	.5	1.0	.0	.0	.0	2.5	.0
8	---	---	7.0	4.0	2.0	.5	1.5	.0	---	---	4.5	.0
9	---	---	8.0	2.5	1.0	.5	1.5	.0	---	---	6.5	.0
10	10.5	6.5	7.5	2.0	1.0	.5	1.0	.0	---	---	7.0	.0
11	12.0	4.5	6.0	2.0	1.0	.5	.5	.0	---	---	5.5	.0
12	10.0	6.0	8.0	3.5	1.0	.5	1.0	.5	---	---	7.5	.0
13	11.0	7.5	6.0	3.0	1.0	.5	1.0	.0	---	---	8.0	.0
14	9.5	7.0	3.0	1.0	1.0	.5	1.0	.0	---	---	9.0	.0
15	9.5	7.0	3.0	.5	1.0	.5	1.0	.0	---	---	9.5	.0
16	7.0	5.0	3.5	.5	1.5	.5	.5	.0	---	---	8.0	.0
17	5.5	3.5	2.5	.5	1.5	.5	.5	.0	---	---	5.5	.5
18	6.0	4.0	2.0	.5	1.5	.5	1.0	.0	---	---	7.5	.5
19	9.0	4.0	2.5	.5	1.5	.5	.5	.0	---	---	8.5	.5
20	9.5	4.0	3.0	.5	1.5	.5	.5	.0	---	---	5.0	2.5
21	9.5	3.5	2.5	.5	1.5	.5	.5	.0	---	---	6.0	1.0
22	8.0	4.0	2.0	.0	1.0	.0	.5	.0	---	---	9.0	.5
23	8.0	3.0	3.0	.5	.5	.0	.5	.0	---	---	9.5	2.0
24	7.5	2.0	2.0	.0	---	---	.5	.0	---	---	4.5	1.5
25	7.5	1.0	2.5	.0	.5	.0	.5	.0	---	---	9.5	.5
26	5.0	2.5	1.0	.0	1.0	.0	.5	.0	.0	.0	12.0	3.0
27	5.0	2.5	.5	.0	.5	.0	.5	.0	.5	.0	10.0	3.0
28	4.0	2.0	1.5	.0	.5	.0	1.0	.5	.5	.0	8.0	2.0
29	6.0	1.0	3.0	.0	1.0	.0	1.0	.5	---	---	7.0	1.5
30	7.0	1.5	2.5	.5	1.0	.0	1.0	.0	---	---	3.0	.5
31	6.5	2.0	---	---	.5	.0	1.0	.5	---	---	9.5	.5

09243900 FOIDEL CREEK AT MOUTH, NEAR OAK CREEK, CO--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	12.0	.0	22.5	8.5	24.5	8.5	---	---				
2	12.0	1.5	19.0	10.5	20.0	9.0	---	---				
3	5.0	1.0	12.0	6.5	19.5	12.0	---	---				
4	6.0	.0	21.0	6.0	25.0	10.5	---	---				
5	14.0	.0	19.0	6.0	27.0	11.0	---	---				
6	15.5	.0	16.5	7.5	27.0	11.0	---	---				
7	8.0	3.0	18.5	5.5	26.0	13.0	---	---				
8	11.0	2.0	11.0	5.0	26.5	12.5	---	---				
9	17.0	2.5	17.0	4.5	---	---	---	---				
10	19.0	3.5	18.5	3.5	---	---	---	---				
11	18.0	4.0	10.5	5.5	---	---	---	---				
12	17.5	3.0	16.0	2.5	---	---	---	---				
13	18.5	5.5	20.0	4.5	---	---	---	---				
14	19.0	2.0	19.5	5.0	---	---	---	---				
15	17.0	6.0	15.5	8.5	---	---	---	---				
16	16.0	5.0	11.5	7.0	---	---	---	---				
17	17.5	4.0	10.5	6.5	---	---	18.0	15.5				
18	18.5	5.5	17.0	6.5	---	---	---	---				
19	18.0	8.5	16.5	7.0	---	---	---	---				
20	15.0	4.5	15.0	8.5	---	---	---	---				
21	13.5	3.5	9.5	6.0	---	---	---	---				
22	15.0	4.5	12.5	6.5	---	---	---	---				
23	21.0	3.0	19.0	8.0	---	---	---	---				
24	22.0	4.5	19.5	6.5	---	---	---	---				
25	19.0	6.0	19.5	8.0	---	---	---	---				
26	20.0	5.5	18.0	10.0	---	---	---	---				
27	17.5	6.5	23.0	11.5	---	---	---	---				
28	20.5	8.5	22.0	10.5	---	---	---	---				
29	20.0	7.5	22.0	11.5	---	---	---	---				
30	22.0	9.0	26.0	9.0	---	---	---	---				
31	---	---	19.5	12.5	---	---	---	---				

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
		OCTOBER			NOVEMBER			DECEMBER	
1	.00	---	---	.32	---	.05	.37	---	.10
2	.00	---	---	.30	---	.05	.33	---	.10
3	.00	---	---	.30	---	.05	.41	120	.13
4	.00	---	---	.30	---	.05	.50	---	.10
5	.00	---	---	.30	---	.05	.52	---	.10
6	.00	---	---	.28	---	.05	.53	---	.10
7	.00	---	---	.30	---	.05	.57	---	.10
8	.00	---	---	.31	---	.05	.56	---	.10
9	.00	---	---	.30	---	.05	.56	75	.11
10	.30	---	.04	.26	---	.05	.52	---	.10
11	.16	---	.02	.27	---	.05	.50	---	.10
12	.06	---	.01	.27	---	.05	.48	---	.10
13	.06	---	.01	.48	---	.10	.45	---	.10
14	.14	---	.02	.51	---	.10	.43	---	.10
15	.11	---	.02	.38	---	.10	.40	---	.10
16	.14	---	.02	.33	---	.05	.38	100	.10
17	.22	---	.03	.27	---	.05	.35	---	.10
18	.30	---	.05	.23	---	.05	.32	---	.10
19	.32	---	.05	.22	---	.05	.30	---	.10
20	.24	---	.03	.21	---	.05	.27	---	.05
21	.23	---	.03	.22	---	.05	.25	---	.05
22	.36	---	.05	.20	---	.05	.22	74	.04
23	.23	---	.03	.24	---	.05	.21	---	.04
24	.11	---	.02	.30	---	.05	.20	---	.04
25	.10	---	.02	.32	80	.07	.20	---	.04
26	.16	---	.02	.37	---	.10	.19	---	.04
27	.23	---	.03	.31	---	.05	.18	---	.03
28	.30	---	.03	.27	---	.05	.17	---	.03
29	.27	---	.03	.27	---	.05	.17	---	.03
30	.30	55	.04	.36	---	.10	.16	---	.02
31	.32	---	.05	---	---	---	.15	---	.02
TOTAL	4.66	---	0.65	9.00	---	1.77	10.85	---	2.37

09243900 FOIDEL CREEK AT MOUTH, NEAR OAK CREEK, CO--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
		JANUARY			FEBRUARY			MARCH	
1	.14	---	.02	.01	---	---	2.0	560	3.0
2	.14	---	.02	.01	---	---	2.0	500	2.7
3	.13	---	.01	.01	---	---	2.0	370	2.0
4	.12	---	.01	.01	---	---	1.0	135	.36
5	.11	---	.01	.01	---	---	1.0	352	.95
6	.10	---	.01	.01	---	---	1.0	552	1.5
7	.10	50	.01	.01	---	---	1.0	286	.77
8	.09	---	.01	.00	---	---	1.0	286	.77
9	.08	---	.01	.00	---	---	1.0	260	.70
10	.07	---	.01	.00	---	---	1.0	312	.84
11	.07	---	.01	.05	---	.05	1.0	364	.98
12	.06	---	.01	.10	---	.10	1.1	264	.78
13	.05	---	.01	.30	---	.20	1.2	250	.81
14	.04	---	.00	.50	---	.20	1.2	230	.75
15	.04	---	.00	1.0	---	.50	1.1	300	.89
16	.03	---	.00	1.4	---	1.0	1.3	960	3.4
17	.02	---	.00	1.6	---	1.0	1.5	---	1.0
18	.02	---	.00	1.8	---	1.0	1.4	---	1.0
19	.02	---	.00	2.1	---	2.0	1.3	300	1.1
20	.02	30	.00	2.3	---	2.0	1.4	---	1.0
21	.02	---	.00	2.6	---	2.0	1.4	---	1.0
22	.02	---	.00	2.8	---	3.0	1.4	---	1.0
23	.02	---	.00	3.0	---	2.0	1.3	---	1.0
24	.02	---	.00	3.1	---	4.0	1.3	---	1.0
25	.02	---	.00	3.2	502	4.3	1.3	---	1.0
26	.01	---	.00	5.1	136	1.9	2.2	1460	15
27	.01	---	.00	3.0	175	1.4	2.4	400	2.6
28	.01	---	.00	3.0	340	2.8	2.0	300	1.6
29	.01	---	.00	---	---	---	1.8	225	1.1
30	.01	---	.00	---	---	---	1.4	240	.91
31	.01	---	.00	---	---	---	1.1	240	.71
TOTAL	1.61	---	0.15	37.02	---	29.45	43.1	---	52.22
		APRIL			MAY			JUNE	
1	1.1	320	.95	.16	130	.06	.26	460	.32
2	2.3	3650	37	.20	160	.09	.24	380	.25
3	2.5	400	2.7	.62	400	.69	.19	500	.26
4	2.0	320	1.7	1.5	417	1.7	.19	440	.23
5	1.7	160	.73	1.2	260	.84	.16	---	.10
6	1.5	---	1.0	1.1	190	.56	.13	---	.05
7	1.5	---	1.0	1.1	150	.45	.09	260	.06
8	1.4	240	.91	.93	125	.31	.07	380	.07
9	1.3	320	1.1	.99	140	.37	.03	560	.05
10	1.3	320	1.1	.81	130	.28	.00	---	---
11	1.1	210	.62	.81	100	.22	.00	---	---
12	1.0	---	.50	1.0	120	.32	.00	---	---
13	.92	---	.40	1.0	120	.32	.00	---	---
14	.78	---	.20	.86	140	.33	.00	---	---
15	.70	120	.23	.66	110	.20	.00	---	---
16	.66	240	.43	.60	130	.21	.00	---	---
17	.63	192	.33	.85	160	.37	.00	---	---
18	.57	228	.35	.88	150	.36	.00	---	---
19	.50	---	.30	.71	130	.25	.00	---	---
20	.43	---	.30	.60	110	.18	.00	---	---
21	.35	---	.20	.56	110	.17	.00	---	---
22	.34	---	.20	.52	120	.17	.00	---	---
23	.37	---	.20	.62	150	.25	.00	---	---
24	.37	---	.20	.55	130	.19	.00	---	---
25	.35	---	.20	.52	200	.28	.00	---	---
26	.31	---	.20	.51	200	.28	.00	---	---
27	.25	---	.10	.59	578	2.1	.00	---	---
28	.19	---	.10	1.0	1150	3.7	.00	---	---
29	.16	160	.07	.51	540	.74	.00	---	---
30	.16	130	.06	.35	480	.45	.00	---	---
31	---	---	---	.29	440	.34	---	---	---
TOTAL	26.74	---	53.38	22.60	---	16.78	1.36	---	1.39

09243900 FOIDEL CREEK AT MOUTH, NEAR OAK CREEK, CO--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
		JULY			AUGUST			SEPTEMBER	
1	.00	---	---	.00			.00		
2	.00	---	---	.00			.00		
3	.00	---	---	.00			.00		
4	.00	---	---	.00			.00		
5	.00	---	---	.00			.00		
6	.00	---	---	.00			.00		
7	.00	---	---	.00			.00		
8	.00	---	---	.00			.00		
9	.00	---	---	.00			.00		
10	.00	---	---	.00			.00		
11	.00	---	---	.00			.00		
12	.00	---	---	.00			.00		
13	.00	---	---	.00			.00		
14	.00	---	---	.00			.00		
15	.00	---	---	.00			.00		
16	.00	---	---	.00			.00		
17	.01	102	.02	.00			.00		
18	.00	---	---	.00			.00		
19	.00	---	---	.00			.00		
20	.00	---	---	.00			.00		
21	.00	---	---	.00			.00		
22	.00	---	---	.00			.00		
23	.00	---	---	.00			.00		
24	.00	---	---	.00			.00		
25	.00	---	---	.00			.00		
26	.00	---	---	.00			.00		
27	.00	---	---	.00			.00		
28	.00	---	---	.00			.00		
29	.00	---	---	.00			.00		
30	.00	---	---	.00			.00		
31	.00	---	---	.00			---		
TOTAL	0.01	---	0.02	0.00			0.00		
YEAR	156.95		158.18						

09244410 YAMPA RIVER BELOW DIVERSION, NEAR HAYDEN, CO

LOCATION.--Lat 40°29'18", long 107°09'33", in NW¼SW¼ sec.9, T.6 N., R.87 W., Routt County, Hydrologic Unit 14050001, in bay of Colorado-Ute Electric Co. pumphouse on left bank 300 ft (91 m) downstream from U.S. Highway 40, 0.1 mi (0.2 km) upstream from Sage Creek, 0.5 mi (0.8 km) downstream from diversion point of Gibraltar Canal, and 4.7 mi (7.6 km) east of Hayden.

DRAINAGE AREA.--1,430 mi^2 (3,700 km^2), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1965 to current year. Prior to October 1972, records included flow in Gibraltar Canal.

GAGE.--Water-stage recorder. Altitude of gage is 6,380 ft (1,945 m), from topographic map.

REMARKS.--Records good except those for winter period, which are poor. Records show flow of river below Gibraltar Canal diversion. Natural flow of stream affected by diversions for irrigation of about 30,000 acres (121 km^2) above and 200 acres (809,000 m^2) below station, transbasin diversions, storage reservoirs, and return flow from irrigated areas.

AVERAGE DISCHARGE.--16 years, 1,037 ft^3/s (29.37 m^3/s), 751,300 acre-ft/yr (926 hm^3/yr); does not include flow in Gibraltar Canal.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 16,500 ft^3/s (467 m^3/s) Apr. 27, 1974, gage height, 11.90 ft (3.627 m), from rating curve extended above 12,000 ft^3/s (340 m^3/s); minimum daily, 5.1 ft^3/s (0.14 m^3/s) July 19, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 5,540 ft^3/s (157 m^3/s) at 0500 June 9, gage height, 8.15 ft (2.484 m); minimum daily, 49 ft^3/s (1.39 m^3/s) Sept. 3.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	130	209	150	150	130	200	201	2110	3850	741	189	63
2	140	201	150	150	130	200	237	2290	3920	565	189	54
3	140	198	150	150	140	200	375	3320	3810	626	178	49
4	140	201	150	150	140	200	305	2840	3870	978	161	56
5	140	194	150	150	140	200	237	2760	3970	940	159	58
6	140	194	150	150	150	200	237	2280	3800	714	153	64
7	135	191	150	150	150	200	315	2150	3740	547	142	70
8	130	201	150	150	150	200	300	2020	4500	454	125	80
9	130	209	150	150	160	200	272	1660	4810	387	110	86
10	130	194	150	150	160	200	380	1460	4720	356	101	94
11	140	187	150	150	170	190	472	1280	4030	361	101	84
12	150	180	150	150	170	190	506	1250	3510	340	102	86
13	160	217	150	140	170	190	524	1240	3070	334	119	90
14	180	229	150	140	180	184	530	1180	2580	432	156	92
15	200	194	150	130	180	194	588	1110	2190	458	168	92
16	220	152	150	130	190	198	735	1120	1740	376	154	90
17	220	150	150	110	190	225	827	1160	1400	315	143	88
18	230	150	150	110	200	198	951	1350	1230	300	143	86
19	230	150	150	110	200	177	1150	1400	1180	411	132	86
20	230	150	150	105	200	194	1250	1290	1080	410	115	86
21	230	150	150	105	200	194	1060	1340	1060	352	107	84
22	230	150	150	110	200	184	938	1640	1040	282	100	84
23	229	150	150	110	200	194	795	1920	973	250	98	84
24	201	150	150	110	200	213	796	2390	845	212	86	86
25	187	150	150	110	200	205	1100	2330	763	197	82	88
26	198	150	150	120	200	221	1480	2350	655	203	79	92
27	213	150	150	120	200	310	1760	2650	568	265	77	94
28	201	150	150	120	200	325	1730	3120	529	386	76	100
29	177	150	150	120	---	276	1790	3790	901	330	68	110
30	180	150	150	120	---	233	1970	3740	1020	249	65	120
31	198	---	150	120	---	213	---	3800	---	204	71	---
TOTAL	5559	5251	4650	4040	4900	6508	23811	64340	71354	12975	3749	2496
MEAN	179	175	150	130	175	210	794	2075	2378	419	121	83.2
MAX	230	229	150	150	200	325	1970	3800	4810	978	189	120
MIN	130	150	150	105	130	177	201	1110	529	197	65	49
AC-FT	11030	10420	9220	8010	9720	12910	47230	127600	141500	25740	7440	4950

CAL YR 1980 TOTAL 390028 MEAN 1066 MAX 6470 MIN 56 AC-FT 773600
WTR YR 1981 TOTAL 209633 MEAN 574 MAX 4810 MIN 49 AC-FT 415800

NOTE.--NO GAGE-HEIGHT RECORD NOV. 17 TO MAR. 13.

09244410 YAMPA RIVER BELOW DIVERSION, NEAR HAYDEN, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--June 1975 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS) (00061)	SPE-CIFIC CON-DUCT-ANCE (UMHOS) (00095)	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS) (90095)	PH (UNITS) (00400)	TEMPER-ATURE (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	HARD-NESS (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)
OCT 22...	1145	234	340	333	7.9	6.5	9.6	130	31	12	21
DEC 04...	1130	275	305	359	7.4	.0	--	130	30	13	24
JAN 29...	1430	124	360	333	8.1	.0	11.0	130	32	11	27
MAR 04...	1300	200	524	524	7.7	1.0	10.4	180	39	20	36
APR 16...	1100	710	231	243	7.9	10.0	10.0	94	24	8.3	11
MAY 05...	1030	2340	116	116	7.0	9.0	9.0	50	14	3.7	7.6
JUL 01...	1300	--	148	148	7.4	19.0	6.6	59	16	4.7	8.0
29...	1620	--	250	242	8.6	20.5	9.4	100	26	8.5	13
SEP 23...	1200	--	315	315	8.4	15.0	9.0	110	28	10	30

DATE	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKA-LINITY LAB (MG/L AS CACO3) (90410)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70302)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)
OCT 22...	.8	2.1	110	51	8.5	.2	4.2	196	.27	124	.00
DEC 04...	.9	2.5	110	57	10	.3	7.7	211	.29	157	.13
JAN 29...	1.1	2.1	110	52	12	.3	8.9	212	.29	71.0	.07
MAR 04...	1.2	3.2	110	130	11	.2	9.8	315	.43	170	1.1
APR 16...	.5	1.8	74	39	4.1	.2	9.1	142	.19	272	.03
MAY 05...	.5	1.2	38	20	2.0	.1	8.2	80	.11	505	.08
JUL 01...	.5	1.3	56	3.0	2.8	.1	7.4	78	.11	--	.01
29...	.6	1.6	85	15	5.4	.1	3.7	126	.17	--	.09
SEP 23...	1.3	2.6	110	23	24	1.0	1.5	186	.25	--	<.00

DATE	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	PHOS-PHORUS, TOTAL (MG/L AS P) (00665)	PHOS-PHORUS, ORTHO, TOTAL (MG/L AS P) (70507)	BORON, DIS-SOLVED (UG/L AS B) (01020)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)
OCT 22...	.040	.75	.79	.79	.050	--	40	60	5.2	6.2
DEC 04...	.010	.77	.78	.91	.050	--	120	50	--	--
JAN 29...	.120	.65	.77	.84	.080	--	40	60	--	6.7
MAR 04...	.270	.93	1.20	2.3	.130	--	40	100	--	--
APR 16...	.060	.65	.71	.74	.080	--	20	240	--	--
MAY 05...	.110	.87	.98	1.1	.170	.060	10	130	--	6.4
JUL 01...	.000	1.1	1.10	1.1	.070	--	10	200	--	--
29...	.220	.21	.43	.52	.050	--	20	85	--	5.3
SEP 23...	.160	.62	.78	--	.050	--	50	74	--	--

09244410 YAMPA RIVER BELOW DIVERSION, NEAR HAYDEN, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL) (01105)	ARSENIC TOTAL (UG/L AS AS) (01002)	BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE) (01012)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD) (01027)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOVERABLE (UG/L AS CU) (01042)	LEAD, TOTAL RECOVERABLE (UG/L AS PB) (01051)
MAY								
05...	1030	1000	1	0	0	20	4	3

DATE	LITHIUM TOTAL RECOVERABLE (UG/L AS LI) (01132)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN) (01055)	MERCURY TOTAL RECOVERABLE (UG/L AS HG) (71900)	MOLYBDENUM, TOTAL RECOVERABLE (UG/L AS MO) (01062)	NICKEL, TOTAL RECOVERABLE (UG/L AS NI) (01067)	SELENIUM, TOTAL (UG/L AS SE) (01147)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN) (01092)
MAY							
05...	10	70	.2	0	4	0	10

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY)
OCT				
22...	1145	235	17	11
22...	1150	235	17	11
NOV				
04...	1145	--	8	--
DEC				
04...	1130	170	10	4.6
JAN				
29...	1430	124	12	4.0
MAR				
04...	1200	202	27	15
04...	1300	202	27	15
APR				
16...	1100	710	80	153
MAY				
07...	1200	E2150	45	261
JUL				
01...	1300	560	12	18
29...	1620	241	11	7.2
SEP				
23...	1200	67	12	2.2

09244415 SAGE CREEK ABOVE SAGE CREEK RESERVOIR, NEAR HAYDEN, CO

LOCATION.--Lat 40°23'01", long 107°11'34", in NE¼NW¼ sec.19, T.5N., R.87W., in Routt County, Hydrologic Unit 14050001, on right bank 0.8 mi (1.3 km) upstream from Sage Creek Reservoir and 8.5 mi (13.7 km) south of Hayden.

DRAINAGE AREA.--4.17 mi² (10.8 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May to September 1981

GAGE.--Water-stage recorder. Altitude of gage is 7,220 ft (2200 m), from topographic map.

REMARKS.--Records good.

EXTREMES FOR CURRENT YEAR.--Maximum discharge during period April to September, 12 ft³/s (0.34 m³/s) at 1400 June 3, gage height 1.13 ft (0.344 m); no flow most days in August and September.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							---	.18	.26	.10	.02	.00
2							---	.21	.20	.12	.02	.00
3							---	.78	1.4	.12	.02	.00
4							---	.85	.83	.10	.02	.00
5							---	.49	1.2	.10	.02	.02
6							---	.72	.71	.07	.02	.00
7							---	.60	.42	.10	.00	.00
8							---	.49	.24	.10	.00	.00
9							---	.43	.17	.12	.00	.00
10							---	.37	.19	.14	.00	.00
11							---	.59	.19	.12	.00	.00
12							---	.48	.17	.24	.00	.00
13							---	.48	.14	.10	.00	.00
14							---	.42	.14	.07	.00	.00
15							---	.53	.14	.05	.00	.00
16							---	.53	.14	.05	.00	.00
17							---	1.5	.12	.07	.00	.00
18							---	.81	.12	.07	.00	.00
19							---	.63	.12	.05	.00	.00
20							---	.52	.12	.05	.00	.00
21							---	.51	.10	.02	.00	.00
22							.30	.57	.12	.02	.00	.00
23							.24	1.0	.12	.02	.00	.00
24							.21	.28	.07	.02	.00	.00
25							.19	.18	.07	.02	.00	.00
26							.19	.21	.07	.02	.00	.00
27							.19	.33	.14	.02	.00	.00
28							.16	.33	.14	.02	.00	.00
29							.19	.32	.12	.02	.00	.00
30							.18	.27	.12	.05	.00	.00
31							---	.26	---	.05	.04	---
TOTAL							---	15.87	8.09	2.22	.16	.02
MEAN							---	.51	.27	.072	.005	.001
MAX							---	1.5	1.4	.24	.04	.02
MIN							---	.18	.07	.02	.00	.00
AC-FT							---	31	16	4.4	.3	.04

09244415 SAGE CREEK ABOVE SAGE CREEK RESERVOIR, NEAR HAYDEN, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--March to September 1981.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: March to September 1981.
WATER TEMPERATURES: March to September 1981.

INSTRUMENTATION.--Water-quality monitor since March 1981.

REMARKS.--Daily maximum and minimum specific-conductance data available in district office.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 1,100 micromhos Mar. 13; minimum, 230 micromhos Aug. 31.
WATER TEMPERATURES: Maximum, 23.0°C July 6; minimum, 0.0°C on several days in March and April.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	SPECIFIC CONDUCTANCE LAB (UMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	OXYGEN, DISSOLVED (MG/L)	HARDNESS (MG/L AS CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)
JAN										
28...	1150	.04	905	905	8.0	.0	10.6	470	100	53
MAR										
06...	1300	.09	860	887	7.9	.0	10.3	450	91	54
31...	1445	.08	935	953	8.2	2.0	10.6	470	96	56
APR										
15...	1336	.57	660	675	7.9	10.5	--	320	65	38
29...	1415	.21	770	773	8.2	15.5	7.8	390	87	42
29...	1445	.28	--	--	--	--	--	--	--	--
MAY										
27...	1440	1.0	710	720	7.6	13.0	6.8	370	83	39
JUN										
24...	1300	.06	700	690	8.2	19.0	3.5	330	81	31
JUL										
23...	1110	.04	760	759	8.2	14.5	7.6	400	89	43
23...	1115	.01	--	--	--	--	--	--	--	--

DATE	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	ALKALINITY LAB (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)
JAN										
28...	23	.5	4.2	280	230	6.3	.2	10	597	.81
MAR										
06...	26	.5	4.8	240	250	6.6	.2	8.5	587	.80
31...	23	.5	4.2	260	260	7.9	.2	8.8	614	.84
APR										
15...	17	.4	3.5	180	180	5.2	.2	7.9	428	.58
29...	18	.4	3.9	250	180	7.6	.2	9.1	499	.68
29...	--	--	--	--	--	--	--	--	--	--
MAY										
27...	17	.4	7.0	220	160	6.5	.2	8.2	455	.62
JUN										
24...	13	.3	4.0	210	130	6.8	.1	11	404	.55
JUL										
23...	16	.3	5.0	270	130	7.5	.1	12	466	.63
23...	--	--	--	--	--	--	--	--	--	--

09244415 SAGE CREEK ABOVE SAGE CREEK RESERVOIR, NEAR HAYDEN, CO--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	BORON, DIS- SOLVED (UG/L AS B)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)
JAN									
28...	.06	.30	--	.020	40	3100	10	400	330
MAR									
06...	.14	.25	--	.010	50	3100	260	280	240
31...	.13	.29	--	.000	60	1700	20	250	200
APR									
15...	.66	.53	--	.020	50	19000	40	410	70
29...	.28	.14	.050	.100	50	1700	20	160	100
29...	--	--	--	--	--	--	--	--	--
MAY									
27...	1.2	.40	--	.050	320	190000	10	4100	40
JUN									
24...	.07	.09	--	.040	50	1500	<10	130	50
JUL									
23...	.05	.11	--	.050	70	1300	10	100	40
23...	--	--	--	--	--	--	--	--	--

DATE	ALUM- INUM, TOTAL RECOV- ERABLE (UG/L AS AL)	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	COBALT, TOTAL RECOV- ERABLE (UG/L AS CO)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)
APR												
15...	7700	40	4	1	0	<1	--	--	15	2	17	2
MAY												
27...	50000	--	10	--	1	--	54	0	250	--	90	--
JUL												
23...	260	20	--	--	--	--	--	--	--	--	1	2

DATE	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY DIS- SOLVED (UG/L AS HG)	MOLYB- DENUM, TOTAL RECOV- ERABLE (UG/L AS MO)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, TOTAL (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)
APR												
15...	.1	.0	0	<10	16	0	0	0	90	<3	23	8.7
MAY												
27...	.3	--	2	--	10	--	3	--	1000	--	--	--
JUL												
23...	--	--	--	--	--	--	--	--	30	10	6.2	5.8

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
JAN					
28...	1150	.04	133	.01	--
MAR					
06...	1300	.09	154	.04	70
31...	1445	.08	121	.03	79
APR					
15...	1336	.57	906	1.4	97
29...	1415	.21	120	.07	--
29...	1445	.28	119	.09	--
MAY					
27...	1440	1.0	11300	31	93
JUN					
24...	1300	.06	112	.02	68
JUL					
23...	1110	.04	108	.01	--
23...	1115	.01	107	.00	--

09244415 SAGE CREEK ABOVE SAGE CREEK RESERVOIR, NEAR HAYDEN, CO--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1						---	829	760	---	759	889	---
2						---	764	787	741	787	903	---
3						---	818	778	672	807	---	---
4						---	865	775	761	799	---	---
5						---	879	787	764	781	---	660
6						---	789	749	763	774	---	680
7						---	822	761	774	774	---	---
8						---	873	781	761	765	---	---
9						---	776	781	761	769	---	---
10						---	667	778	780	806	---	---
11						987	689	752	772	786	---	---
12						1050	747	768	763	741	---	---
13						1040	755	775	763	853	---	---
14						955	737	779	775	843	---	---
15						862	700	817	771	800	---	---
16						899	700	766	772	789	---	---
17						995	721	674	761	786	---	---
18						1010	767	777	760	771	---	---
19						1010	785	780	755	826	---	---
20						950	787	779	750	815	---	---
21						995	784	778	747	814	---	---
22						923	791	781	748	851	---	---
23						950	780	736	744	814	---	---
24						965	778	756	743	---	---	---
25						935	774	752	743	---	---	---
26						782	770	763	742	835	---	---
27						818	764	---	739	902	---	---
28						905	764	---	758	---	---	---
29						920	764	---	761	---	---	---
30						893	764	---	760	887	---	---
31						876	---	---	---	883	443	---

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1											---	---
2											---	---
3											---	---
4											---	---
5											---	---
6											---	---
7											---	---
8											---	---
9											---	---
10											---	---
11											.0	.0
12											.0	.0
13											.0	.0
14											.0	.0
15											.0	.0
16											.0	.0
17											.0	.0
18											.5	.0
19											.5	.0
20											.5	.0
21											.5	.0
22											.5	.0
23											1.5	.0
24											.5	.0
25											.5	.0
26											1.0	.0
27											2.5	.0
28											1.5	.0
29											1.0	.0
30											.0	.0
31											1.0	---
MONTH											2.5	.0

09244415 SAGE CREEK ABOVE SAGE CREEK RESERVOIR, NEAR HAYDEN, CO--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	1.5	.0	17.0	4.0	18.5	6.0	17.0	11.5	20.0	11.5	---	---
2	3.0	.0	13.0	6.5	19.5	6.0	17.5	12.0	22.5	10.0	---	---
3	.5	.0	9.5	3.0	13.0	8.5	20.0	10.5	---	---	---	---
4	.5	.0	13.0	3.5	18.0	7.0	21.0	9.5	---	---	---	---
5	1.5	.0	12.5	3.0	19.5	8.0	22.0	10.0	---	---	13.0	11.5
6	3.0	.0	10.5	3.5	20.5	7.5	23.0	10.5	---	---	11.0	11.0
7	2.0	.5	14.0	2.5	19.5	9.0	22.5	11.5	---	---	---	---
8	2.5	.0	7.5	3.0	21.0	9.0	22.0	11.0	---	---	---	---
9	5.0	.0	10.5	3.0	20.5	9.0	18.5	11.5	---	---	---	---
10	6.5	.0	12.5	2.0	20.5	8.5	21.0	11.0	---	---	---	---
11	8.0	.0	8.5	2.0	21.5	8.5	20.0	12.0	---	---	---	---
12	9.0	.0	11.5	1.5	21.0	8.5	19.0	12.5	---	---	---	---
13	9.0	1.0	12.0	2.5	18.5	8.5	17.0	12.5	---	---	---	---
14	9.0	.0	14.0	2.5	12.0	5.5	21.0	11.5	---	---	---	---
15	10.5	1.5	10.5	5.0	15.5	5.5	20.5	10.0	---	---	---	---
16	10.5	1.0	9.5	5.0	19.0	4.5	17.5	11.0	---	---	---	---
17	11.5	2.0	9.0	4.0	18.5	7.0	15.5	12.5	---	---	---	---
18	12.0	2.5	11.5	5.0	17.0	6.5	20.0	10.5	---	---	---	---
19	11.0	4.0	14.0	4.5	20.0	7.0	20.0	11.5	---	---	---	---
20	10.0	1.0	11.0	6.0	20.5	8.0	20.0	9.0	---	---	---	---
21	10.5	2.0	8.0	4.0	20.5	8.5	20.5	9.5	---	---	---	---
22	9.5	2.0	9.0	5.0	21.5	8.0	19.5	9.5	---	---	---	---
23	13.0	1.0	13.0	6.0	20.0	8.5	20.0	8.5	---	---	---	---
24	16.0	2.0	15.0	4.0	21.5	8.0	---	---	---	---	---	---
25	13.5	3.0	14.0	5.5	22.5	8.5	---	---	---	---	---	---
26	16.0	2.5	13.0	6.5	21.5	10.0	16.5	11.0	---	---	---	---
27	14.5	3.0	14.0	8.0	22.5	11.0	17.5	8.5	---	---	---	---
28	15.5	3.0	15.0	7.0	17.5	11.5	---	---	---	---	---	---
29	16.0	3.0	17.5	7.5	21.5	9.5	---	---	---	---	---	---
30	17.5	4.0	19.5	6.0	21.5	9.5	19.0	9.0	---	---	---	---
31	---	---	14.5	8.5	---	---	20.5	10.5	8.0	4.0	---	---
MONTH	17.5	.0	19.5	1.5	22.5	4.5	23.0	8.5	22.5	4.0	13.0	11.0
YEAR	23.0	.0										

09244460 WATERING TROUGH GULCH NEAR HAYDEN, CO

LOCATION.--Lat 40°22'36", long 107°16'48", in SE¼NE¼ sec.20, T.5 N., R.88 W., Routt County, Hydrologic Unit 14050001, on right bank 1.4 mi (2.3 km) upstream from confluence with Hubberson Gulch and 8.1 mi (13.0 km) south of Hayden.

DRAINAGE AREA.--2.65 mi² (6.86 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1979 to September 1981 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 6,920 ft (2,109 m), from topographic map.

REMARKS.--Records good except those for winter period, which are poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5.8 ft³/s (0.16 m³/s) Apr. 29, 1980, gage height, 1.53 ft (0.466 m); no flow several days each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 0.21 ft³/s (0.006 m³/s) at 0215 Oct. 14, gage height, 0.19 ft (0.058 m); no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.04	.06	.06	.05	.03	.03	.05	.00	.03	.00	.02	.02
2	.04	.06	.06	.05	.03	.03	.04	.00	.02	.00	.02	.02
3	.04	.06	.06	.04	.03	.03	.03	.01	.01	.00	.02	.02
4	.04	.06	.06	.04	.03	.03	.03	.00	.05	.00	.02	.01
5	.04	.06	.06	.04	.03	.03	.04	.00	.02	.00	.02	.00
6	.04	.06	.06	.04	.03	.03	.04	.00	.00	.00	.02	.01
7	.04	.06	.06	.04	.03	.03	.04	.00	.00	.00	.02	.01
8	.04	.06	.06	.04	.03	.04	.03	.00	.00	.00	.02	.01
9	.04	.05	.06	.04	.03	.04	.03	.01	.00	.00	.03	.01
10	.05	.05	.06	.04	.03	.03	.03	.02	.01	.00	.03	.01
11	.05	.05	.06	.04	.03	.03	.03	.03	.00	.00	.03	.01
12	.05	.05	.06	.04	.03	.04	.02	.04	.00	.00	.03	.00
13	.07	.06	.06	.04	.03	.03	.02	.05	.00	.00	.03	.00
14	.07	.06	.06	.04	.03	.03	.02	.03	.00	.00	.03	.00
15	.07	.06	.06	.04	.03	.03	.02	.01	.00	.01	.03	.00
16	.06	.06	.06	.04	.03	.03	.01	.03	.00	.05	.03	.00
17	.07	.06	.06	.04	.03	.02	.01	.07	.00	.05	.03	.00
18	.07	.06	.06	.03	.03	.02	.00	.04	.00	.04	.03	.00
19	.07	.06	.06	.03	.03	.02	.00	.03	.00	.04	.03	.00
20	.06	.06	.06	.03	.03	.03	.00	.02	.00	.04	.02	.00
21	.06	.06	.06	.03	.03	.02	.00	.02	.00	.02	.02	.00
22	.06	.06	.06	.03	.03	.02	.01	.04	.04	.02	.01	.00
23	.06	.06	.06	.03	.03	.02	.06	.05	.03	.01	.02	.00
24	.06	.06	.06	.03	.03	.02	.05	.03	.03	.02	.02	.00
25	.06	.06	.05	.03	.03	.02	.04	.02	.01	.02	.01	.01
26	.06	.06	.05	.03	.03	.02	.03	.02	.01	.03	.01	.01
27	.06	.06	.05	.03	.03	.02	.02	.02	.00	.03	.01	.00
28	.06	.06	.05	.03	.03	.02	.03	.03	.00	.03	.01	.00
29	.06	.06	.05	.03	---	.01	.01	.05	.00	.03	.01	.00
30	.06	.06	.05	.03	---	.01	.00	.05	.00	.03	.01	.01
31	.06	---	.05	.03	---	.00	---	.03	---	.02	.04	---
TOTAL	1.71	1.76	1.79	1.12	.84	.78	.74	.75	.26	.49	.68	.16
MEAN	.055	.059	.058	.036	.030	.025	.025	.024	.009	.016	.022	.005
MAX	.07	.06	.06	.05	.03	.04	.06	.07	.05	.05	.04	.02
MIN	.04	.05	.05	.03	.03	.00	.00	.00	.00	.00	.01	.00
AC-FT	3.4	3.5	3.6	2.2	1.7	1.5	1.5	1.5	.5	1.0	1.3	.3

CAL YR 1980 TOTAL 58.07 MEAN .16 MAX 3.4 MIN .00 AC-FT 115
WTR YR 1981 TOTAL 11.08 MEAN .030 MAX .07 MIN .00 AC-FT 22

NOTE.--NO GAGE-HEIGHT RECORD NOV. 27 TO MARCH 5.

09244460 WATERING TROUGH GULCH NEAR HAYDEN, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--July 1979 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: July 1979 to September 1981 (discontinued).
WATER TEMPERATURE: July 1979 to September 1981 (discontinued).

INSTRUMENTATION.--Water-quality monitor since July 1979.

REMARKS.--Unpublished specific-conductance and water temperature data from the 1979 water year are included in this report. Daily maximum and minimum values of specific conductance are available in district office.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 1,320 micromhos July 15, 1980; minimum, 573 micromhos April 23, 1980.
WATER TEMPERATURES: Maximum, 17.5°C April 27, 1980, minimum, 0.0°C many days during February and March 1981.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum 1260 micromhos Sept. 2; minimum, 630 micromhos February 24.
WATER TEMPERATURES: Maximum, 11.5°C Aug. 4, 5, Sept. 3; minimum, 0.0°C many days during February and March.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	HARD-NESS (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO
OCT												
02...	1425	.04	--	--	--	9.5	--	--	--	--	--	--
02...	1430	.04	1040	1060	7.5	9.5	8.2	510	110	56	40	.8
30...	1615	.09	1040	1050	7.6	5.5	8.6	510	100	63	46	.9
NOV												
26...	1150	.08	1000	1060	7.6	4.5	9.6	470	95	56	36	.7
JAN												
07...	0955	.04	1110	921	7.4	4.0	9.5	520	110	59	39	.7
28...	1015	.03	1010	1020	8.0	5.0	9.8	510	110	58	43	.8
MAR												
06...	1600	.02	825	849	7.8	1.5	--	410	87	46	30	.6
APR												
01...	1010	.02	1010	1010	8.1	5.0	10.3	510	110	58	35	.7
28...	1020	.03	1000	999	7.8	7.0	8.8	510	110	56	36	.7
MAY												
28...	1005	.03	995	1030	7.8	7.0	5.8	510	110	56	36	.7
JUN												
24...	1100	.02	1020	1020	7.8	9.0	12.0	480	100	56	37	.7
JUL												
23...	1450	.02	1030	1020	7.9	10.0	8.2	520	110	59	39	.7
AUG												
10...	1130	.01	1030	1020	8.0	10.0	8.0	510	107	58	38	.8
SEP												
23...	1040	.01	1040	1040	7.9	10.0	8.2	530	109	62	42	.9

DATE	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)
OCT											
02...	--	--	--	--	--	--	--	--	--	--	--
02...	5.8	370	230	11	.3	12	688	.94	.07	.01	.000
30...	5.8	360	220	13	.3	13	678	.92	.16	.14	.000
NOV											
26...	5.0	350	170	11	.2	11	595	.81	.13	.14	.020
JAN											
07...	4.6	360	230	10	.2	11	681	.93	.07	.25	.030
28...	4.8	350	230	10	.3	11	679	.92	.05	.33	.030
MAR											
06...	5.3	280	190	8.9	.2	9.7	547	.74	.03	.28	.030
APR											
01...	4.3	340	260	9.5	.2	10	692	.94	.04	.04	.000
28...	5.0	350	230	9.6	.3	10	669	.91	.05	.28	.000
MAY											
28...	4.8	280	240	9.0	.2	11	658	.89	.05	5.0	.040
JUN											
24...	4.5	350	220	9.3	.2	11	649	.88	.04	.12	.020
JUL											
23...	5.1	360	220	9.9	.2	12	673	.92	.04	.17	.070
AUG											
10...	5.5	360	220	20	.2	12	678	.92	.02	.10	.020
SEP											
23...	5.3	360	280	11	.2	13	659	.90	.02	.10	.030

09244460 WATERING TROUGH GULCH NEAR HAYDEN, CO--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL)	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DISSOLVED (UG/L AS AS)	BORON, DISSOLVED (UG/L AS B)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD)	CADMIUM DISSOLVED (UG/L AS CD)	COPPER, TOTAL RECOVERABLE (UG/L AS CU)	COPPER, DISSOLVED (UG/L AS CU)
OCT										
02...	1430	90	0	2	1	70	0	<1	27	3
30...	1615	--	--	--	--	100	--	--	--	--
NOV										
26...	1150	--	--	--	--	90	--	--	--	--
JAN										
07...	0955	410	20	--	--	60	--	--	--	--
28...	1015	--	--	--	--	60	--	--	--	--
MAR										
06...	1600	--	--	--	--	50	--	--	--	--
APR										
01...	1010	--	--	--	--	70	--	--	--	--
28...	1020	190	0	1	1	70	0	<1	4	2
MAY										
28...	1005	--	--	--	--	70	--	--	--	--
JUN										
24...	1100	--	--	--	--	70	--	--	--	--
JUL										
23...	1450	40	10	--	--	80	--	--	--	--
AUG										
10...	1130	--	--	--	--	80	--	--	--	--
SEP										
23...	1040	--	--	--	--	80	--	--	--	--

DATE	IRON, TOTAL RECOVERABLE (UG/L AS FE)	IRON, DISSOLVED (UG/L AS FE)	LEAD, TOTAL RECOVERABLE (UG/L AS PB)	LEAD, DISSOLVED (UG/L AS PB)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	MANGANESE, DISSOLVED (UG/L AS MN)	MERCURY TOTAL RECOVERABLE (UG/L AS HG)	MERCURY DISSOLVED (UG/L AS HG)	MOLYBDENUM, TOTAL RECOVERABLE (UG/L AS MO)
OCT									
02...	870	<10	6	1	80	20	.1	.0	0
30...	920	30	--	--	100	30	--	--	--
NOV									
26...	460	<10	--	--	50	30	--	--	--
JAN									
07...	1200	20	3	0	470	30	--	--	--
28...	620	10	--	--	60	20	--	--	--
MAR									
06...	440	60	--	--	50	50	--	--	--
APR									
01...	440	10	--	--	50	20	--	--	--
28...	550	20	0	3	40	10	.0	.0	2
MAY									
28...	260	20	--	--	30	20	--	--	--
JUN									
24...	200	10	--	--	20	10	--	--	--
JUL									
23...	170	10	2	2	20	20	--	--	--
AUG									
10...	130	<10	--	--	20	12	--	--	--
SEP									
23...	130	10	--	--	20	14	--	--	--

09244460 WATERING TROUGH GULCH NEAR HAYDEN, CO--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI)	NICKEL, DIS-SOLVED (UG/L AS NI)	SELE-NIUM, TOTAL (UG/L AS SE)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN)	ZINC, DIS-SOLVED (UG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C)
OCT									
02...	<10	6	2	1	1	50	<3	20	11
30...	--	--	--	--	--	--	--	--	--
NOV									
26...	--	--	--	--	--	--	--	--	--
JAN									
07...	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	56	10	7.1	3.9
MAR									
06...	--	--	--	--	--	--	--	--	--
APR									
01...	--	--	--	--	--	--	--	--	--
28...	<10	3	1	1	1	20	9	12	9.9
MAY									
28...	--	--	--	--	--	--	--	--	--
JUN									
24...	--	--	--	--	--	--	--	--	--
JUL									
23...	--	--	--	--	--	10	20	4.0	4.0
AUG									
10...	--	--	--	--	--	--	--	--	--
SEP									
23...	--	--	--	--	--	--	--	--	--

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)
OCT				
02...	1425	.04	8	.00
30...	1615	.09	51	.01
NOV				
26...	1150	.08	48	.01
JAN				
07...	0955	.04	29	.00
28...	1015	.03	48	.00
MAR				
06...	1600	.02	35	.00
APR				
01...	1010	.02	18	.00
28...	1020	.03	60	.00
MAY				
28...	1005	.03	44	.00
JUN				
24...	1100	.02	18	.00
JUL				
23...	1450	.02	19	.00
AUG				
10...	1130	.01	34	.00
SEP				
23...	1040	.01	48	.00

09244460 WATERING TROUGH GULCH NEAR HAYDEN, CO–Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1040	980	1000	935	963	985	852		---	---	1070	1200
2	993	980	1020	934	948	985	895		---	---	1050	1180
3	992	980	1010	943	946	1010	943		---	---	1050	1150
4	978	980	1010	985	952	997	949		---	---	1030	1090
5	975	1010	1010	989	958	964	912		---	---	1030	---
6	981	1050	1010	991	956	977	921		---	---	1020	1090
7	989	1020	1000	975	950	939	928		---	---	1020	1050
8	998	1020	1010	953	944	911	935		---	---	1010	1050
9	1000	1030	1020	953	957	916	924		---	---	1010	1050
10	1010	1030	1030	951	942	942	931		1080	---	1010	1030
11	1020	1010	1020	949	965	919	936		---	---	1020	1010
12	1020	1010	1010	951	961	898	942		---	---	1030	---
13	1030	1010	1020	950	957	922	944		---	---	1080	---
14	1040	1010	1020	953	953	893	924		---	---	1090	---
15	1030	1010	1030	962	958	887	934		---	---	1090	---
16	1020	1010	1020	976	954	879	940		---	---	1090	---
17	1010	1020	1010	990	960	915	948		---	---	1080	---
18	1010	1020	1000	981	944	931	---		---	---	1060	---
19	1030	1020	1000	995	902	911	---		---	---	1080	---
20	1020	1010	998	999	944	897	---		---	---	1080	---
21	1020	1060	993	995	955	948	---		---	---	1080	---
22	1010	1060	974	1020	956	905	1000		1150	---	1090	---
23	1010	1060	975	1040	931	928	991		1190	---	1090	---
24	981	1060	975	1060	907	954	987		1140	---	1100	---
25	1010	---	974	1050	940	909	989		1110	---	1110	1080
26	1000	1030	964	1030	1020	899	986		1110	---	1120	1070
27	997	1030	945	1030	984	915	987		---	---	1120	---
28	1000	1030	931	960	963	943	1020		---	---	1120	---
29	1000	1010	936	967	---	947	945		---	---	1110	---
30	987	1000	932	956	---	948	918		---	1100	1120	1050
31	985	---	927	964	---	---	---		---	1090	1130	---
MEAN	1010	1020	993	980	953	932	945		1130	1100	1070	1080

09244460 WATERING TROUGH GULCH NEAR HAYDEN, CO—Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	---	---	7.5	3.5	5.0	3.5	5.0	3.5	3.5	2.5	3.5	1.0
2	---	---	7.5	4.0	5.0	4.0	5.0	3.5	4.0	2.0	3.5	1.5
3	10.0	7.5	8.0	6.0	5.5	4.0	5.0	3.5	4.0	2.0	3.0	1.5
4	10.0	7.5	8.0	5.5	5.0	4.5	5.0	4.0	4.0	2.0	3.5	1.0
5	10.0	7.5	7.5	5.5	5.0	4.0	4.5	3.5	4.0	2.0	3.5	1.0
6	10.0	7.5	7.5	5.0	5.0	4.0	4.0	3.0	4.0	2.0	4.0	.0
7	10.0	7.5	7.5	5.0	5.0	4.0	4.5	3.0	4.0	2.0	3.0	1.0
8	10.0	7.5	7.0	5.0	4.0	3.0	4.5	3.0	3.5	2.5	3.5	.0
9	10.0	7.0	7.0	5.0	4.0	3.0	4.5	3.0	4.0	.0	3.5	.5
10	9.5	7.0	7.5	5.5	4.5	3.0	4.5	3.0	2.5	.0	3.5	1.0
11	9.5	7.0	8.0	6.0	4.5	3.5	4.5	3.0	2.0	1.5	3.5	.5
12	9.5	7.0	6.0	5.0	5.0	3.5	4.5	3.0	4.5	2.0	3.5	.5
13	9.5	8.0	5.0	4.0	4.5	3.5	4.5	3.0	4.0	2.0	3.5	1.0
14	9.5	7.0	5.0	4.0	5.0	3.5	4.5	3.0	4.5	2.0	4.0	1.0
15	9.0	7.0	5.0	4.0	5.0	4.0	4.5	3.0	4.5	2.5	4.0	.0
16	7.5	6.5	5.0	3.5	5.0	4.0	5.0	3.5	5.0	2.0	4.0	1.0
17	7.0	6.5	5.0	4.0	5.0	4.0	5.0	3.5	4.0	2.0	2.5	.0
18	7.5	6.5	5.0	4.0	5.0	4.0	5.0	3.0	4.0	2.0	3.0	.5
19	8.5	6.0	5.0	4.0	4.5	3.5	4.5	3.0	4.5	.5	4.0	.5
20	8.0	6.0	5.5	4.0	5.0	3.5	5.0	3.0	2.5	1.5	3.0	1.0
21	8.0	6.0	6.5	5.0	5.0	4.0	5.0	3.0	3.0	1.0	2.5	.5
22	8.0	5.5	6.5	5.5	5.0	3.5	5.0	3.0	3.5	1.5	4.0	.5
23	7.0	5.0	6.5	5.5	4.5	3.5	5.0	3.0	4.0	1.0	3.5	1.0
24	6.0	6.0	6.0	5.0	4.5	3.0	5.0	3.0	4.0	.0	3.0	1.0
25	7.0	5.0	---	---	5.0	4.0	4.0	2.5	4.0	.5	4.0	.5
26	7.0	6.0	4.5	3.5	5.0	4.0	4.5	2.5	3.5	1.5	4.0	1.5
27	6.5	4.5	5.0	3.5	5.0	4.0	5.0	3.5	3.5	1.0	3.5	1.0
28	6.0	4.5	5.0	4.0	5.0	3.5	5.0	3.5	3.5	1.0	3.0	.5
29	6.0	4.5	5.0	4.0	4.5	3.0	5.0	3.5	---	---	3.0	1.0
30	7.0	3.0	5.0	4.5	4.5	3.0	5.0	3.0	---	---	2.0	.0
31	7.5	3.0	---	---	5.0	3.5	4.0	3.0	---	---	---	---
MONTH	10.0	3.0	8.0	3.5	5.5	3.0	5.0	2.5	5.0	.0	4.0	.0

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	5.5	1.5	---	---	9.5	6.0	---	---	10.5	8.5	10.5	9.0
2	5.5	2.0	---	---	9.5	6.0	---	---	10.5	8.5	10.5	9.5
3	3.5	2.0	---	---	8.5	6.5	---	---	11.0	8.5	11.5	9.0
4	4.0	2.0	---	---	9.5	6.5	---	---	11.5	8.5	11.0	9.0
5	5.5	1.0	---	---	10.5	6.5	---	---	11.5	8.5	---	---
6	5.5	2.0	---	---	---	---	---	---	11.0	8.0	11.0	9.5
7	4.0	1.5	---	---	---	---	---	---	11.0	8.5	11.0	9.5
8	4.5	2.5	---	---	---	---	---	---	11.0	8.0	11.0	9.0
9	6.0	2.0	7.5	4.5	---	---	---	---	11.0	8.5	11.0	9.0
10	6.5	2.5	7.5	4.0	9.5	7.0	---	---	10.0	8.5	10.5	9.0
11	6.5	2.5	7.0	4.0	---	---	---	---	10.0	8.5	10.5	9.0
12	6.5	2.5	8.0	4.0	---	---	---	---	10.5	9.0	---	---
13	6.5	2.5	7.5	4.5	---	---	---	---	10.5	9.0	---	---
14	6.5	2.5	9.0	4.5	---	---	---	---	10.5	9.0	---	---
15	7.5	3.0	7.5	5.0	---	---	---	---	10.0	9.0	---	---
16	7.5	3.0	7.0	5.5	---	---	---	---	11.0	9.0	---	---
17	7.5	3.5	7.0	5.5	---	---	---	---	11.0	9.0	---	---
18	---	---	8.0	5.5	---	---	---	---	11.0	8.5	---	---
19	---	---	8.5	5.0	---	---	---	---	11.0	9.0	---	---
20	---	---	9.0	5.5	---	---	---	---	10.5	9.0	---	---
21	---	---	7.0	5.0	---	---	---	---	10.5	9.0	---	---
22	6.5	3.5	7.0	5.5	8.5	8.0	---	---	10.5	9.0	---	---
23	7.5	3.5	8.5	5.5	9.0	8.0	---	---	10.5	9.0	---	---
24	8.5	3.5	9.0	5.5	10.0	7.5	---	---	10.5	9.0	---	---
25	8.5	4.0	8.0	6.0	10.0	7.5	---	---	11.0	5.5	10.5	8.5
26	9.0	4.0	8.0	6.0	10.0	7.5	---	---	11.0	9.5	10.0	8.0
27	8.5	4.0	9.0	6.5	---	---	---	---	11.0	9.0	---	---
28	9.0	4.0	9.0	6.0	---	---	---	---	11.0	9.0	---	---
29	9.5	4.5	9.0	6.5	---	---	---	---	10.0	9.0	---	---
30	9.5	5.0	9.5	6.0	---	---	11.0	9.0	11.0	9.5	10.0	8.0
31	---	---	9.0	6.5	---	---	11.0	8.5	10.5	9.0	---	---
MONTH	9.5	1.0	9.5	4.0	10.5	6.0	11.0	8.5	11.5	5.5	11.5	8.0

09244464 HUBBERSON GULCH NEAR HAYDEN, CO

LOCATION.--Lat 40°23'01", long 107°16'18", in NW¼SW¼ sec.16, T.5 N., R.88 W., Routt County, Hydrologic Unit 104050001, on left bank 0.3 mi (0.5 km) upstream from confluence with Watering Trough Gulch and 7.0 mi (11.3 km) south of Hayden.

DRAINAGE AREA.--8.08 mi² (20.9 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1979 to September 1981 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 6,780 ft (2,067 m), from topographic map.

REMARKS.--Records fair except for period of no gage-height record, which are poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum observed discharge, 43 ft³/s (1.22 m³/s), Apr. 20, 1980, gage height, 1.90 ft (0.579 m), result of discharge measurement; no flow many days each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 17 ft³/s (0.48 m³/s) at 1800 Aug. 31, gage height, 1.42 ft (0.433 m); no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.03	.14	.03	.07	.02	.10	.32	.13	.15	.06	.00	.07
2	.03	.13	.03	.07	.02	.10	.45	.14	.12	.15	.00	.05
3	.03	.13	.03	.07	.02	.15	.25	.40	.30	.11	.00	.08
4	.03	.13	.03	.07	.01	.15	.16	.54	.22	.08	.00	.05
5	.04	.13	.03	.08	.01	.15	.21	.29	.18	.08	.01	.14
6	.04	.13	.03	.08	.01	.15	.31	.30	.17	.08	.00	.08
7	.04	.11	.04	.08	.01	.15	.24	.20	.16	.07	.00	.05
8	.05	.10	.04	.08	.01	.20	.18	.17	.16	.06	.00	.05
9	.05	.10	.04	.07	.01	.20	.40	.20	.14	.05	.00	.05
10	.06	.10	.04	.07	.01	.20	.54	.17	.13	.04	.00	.04
11	.07	.10	.04	.07	.01	.20	.50	.20	.13	.04	.00	.02
12	.07	.11	.04	.06	.01	.20	.39	.26	.11	.04	.00	.01
13	.08	.14	.04	.06	.01	.20	.29	.22	.11	.05	.00	.00
14	.08	.10	.05	.06	.01	.20	.25	.17	.11	.05	.00	.00
15	.09	.08	.05	.06	.01	.20	.28	.15	.11	.03	.00	.00
16	.09	.09	.05	.06	.01	.20	.32	.17	.11	.03	.00	.00
17	.10	.08	.05	.05	.01	.20	.29	.43	.09	.03	.00	.00
18	.10	.07	.05	.05	.01	.20	.28	.37	.07	.03	.00	.00
19	.11	.06	.05	.05	.01	.20	.29	.22	.07	.03	.00	.00
20	.11	.04	.05	.05	.01	.20	.22	.18	.06	.03	.00	.00
21	.12	.04	.06	.04	.01	.20	.20	.17	.06	.03	.00	.00
22	.12	.03	.06	.04	.01	.20	.21	.17	.05	.03	.00	.00
23	.13	.03	.06	.04	.01	.20	.17	.24	.06	.04	.00	.00
24	.13	.03	.06	.04	.01	.20	.17	.18	.05	.07	.00	.00
25	.14	.05	.06	.03	.01	.20	.16	.16	.03	.05	.00	.00
26	.14	.02	.06	.03	.05	.20	.15	.14	.03	.05	.00	.00
27	.15	.02	.06	.02	.05	.20	.16	.15	.06	.04	.00	.00
28	.15	.02	.06	.02	.10	.24	.13	.17	.08	.02	.00	.00
29	.16	.02	.06	.02	---	.20	.15	.24	.06	.01	.00	.00
30	.16	.02	.07	.02	---	.24	.08	.19	.06	.00	.00	.00
31	.15	---	.07	.02	---	.22	---	.16	---	.00	.92	---
TOTAL	2.85	2.35	1.49	1.63	.48	5.85	7.75	6.88	3.24	1.48	.93	.69
MEAN	.092	.078	.048	.053	.017	.19	.26	.22	.11	.048	.030	.023
MAX	.16	.14	.07	.08	.10	.24	.54	.54	.30	.15	.92	.14
MIN	.03	.02	.03	.02	.01	.10	.08	.13	.03	.00	.00	.00
AC-FT	5.7	4.7	3.0	3.2	1.0	12	15	14	6.4	2.9	1.8	1.4

CAL YR 1980 TOTAL 408.14 MEAN 1.12 MAX 30 MIN .00 AC-FT 810
WTR YR 1981 TOTAL 35.62 MEAN .098 MAX .92 MIN .00 AC-FT 71

NOTE.--NO GAGE-HEIGHT RECORD NOV. 26 TO MAR. 5.

09244464 HUBBERSON GULCH NEAR HAYDEN, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--July 1979 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: July 1979 to September 1981 (discontinued).
WATER TEMPERATURES: July 1979 to September 1981 (discontinued).

INSTRUMENTATION.--Water-quality monitor July 1979 to September 1981.

REMARKS.--Unpublished daily values of specific conductance and water temperatures for the 1979 water year are published in this report. Maximum and minimum values of specific conductance are available in the district office.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 2,090 micromhos Nov. 18, 1980; minimum, 119 micromhos July 3, 1981.
WATER TEMPERATURES: Maximum, 28.5°C July 5, 1981; minimum, 0.0°C on many days during winter months.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 2,090 micromhos Nov. 18; minimum, 119 micromhos July 3.
WATER TEMPERATURES: MAXIMUM, 28.5°C July 5; minimum, 0.0°C on several days during March and April.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	SPECIFIC CONDUCTANCE LAB (UMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	OXYGEN, DISSOLVED (MG/L)	HARDNESS (MG/L AS CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO
OCT												
02...	1555	.03	1750	1750	7.9	15.0	8.8	840	140	120	94	1.4
30...	1540	.14	1360	1350	8.0	3.0	9.4	650	110	91	59	1.0
NOV												
26...	1100	.02	1490	1480	7.5	3.0	9.0	710	130	93	79	1.3
JAN												
07...	1025	.08	1320	1350	7.6	1.0	10.5	650	130	78	54	.9
28...	1040	.02	1570	1570	7.5	7.0	6.7	780	170	87	86	1.3
MAR												
06...	1450	.17	922	922	8.0	1.0	10.2	450	93	52	39	.8
APR												
01...	1055	.30	1090	1090	8.3	.5	11.8	530	110	62	41	.8
28...	1105	.14	1200	1170	8.2	13.0	6.8	590	120	71	47	.8
MAY												
28...	1040	.14	1140	1140	8.2	15.0	7.3	560	110	70	43	.8
JUN												
24...	1145	.05	1450	1450	8.0	22.0	4.5	670	120	91	72	1.2
JUL												
23...	1400	.01	1570	1580	7.9	23.0	8.4	760	160	87	85	1.3
AUG												
10...	1210	.01	1560	1570	7.8	16.0	7.6	780	164	89	87	1.5

DATE	POTASSIUM, DISSOLVED (MG/L AS K)	ALKALINITY LAB (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, DISSOLVED (TONS PER DAY)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)
OCT											
02...	5.9	340	710	21	.2	6.5	1300	1.8	.11	.17	.000
30...	5.4	320	460	15	.2	8.0	942	1.3	.36	.12	.000
NOV											
26...	4.1	380	450	17	.2	9.4	1010	1.4	.05	.16	.000
JAN											
07...	3.7	360	380	11	.2	9.4	884	1.2	.19	.13	.000
28...	3.1	390	500	14	.3	11	1110	1.5	.06	.12	.000
MAR											
06...	3.6	270	240	7.8	.0	7.3	606	.82	.28	.00	.010
APR											
01...	3.2	320	280	8.9	.2	7.2	706	.96	.57	.24	.000
28...	3.8	320	350	9.6	.3	7.3	803	1.1	.30	.23	.000
MAY											
28...	3.7	320	340	9.0	.2	7.5	776	1.1	.29	.11	.040
JUN											
24...	4.7	320	490	14	.2	6.3	991	1.4	.13	.04	.090
JUL											
23...	4.0	400	530	16	.2	9.7	1130	1.5	.03	.09	.050
AUG											
10...	4.0	420	530	19	.2	11	1160	1.6	.03	.00	.000

09244464 HUBBERSON GULCH NEAR HAYDEN, CO--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL)	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DISSOLVED (UG/L AS AS)	BORON, DISSOLVED (UG/L AS B)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	COBALT, TOTAL RECOVERABLE (UG/L AS CO)
OCT										
02...	1555	130	0	2	1	70	0	<1	--	--
30...	1540	--	--	--	--	70	--	--	--	--
NOV										
26...	1100	--	--	--	--	90	--	--	--	--
JAN										
07...	1025	230	20	--	--	50	--	--	--	--
28...	1040	--	--	--	--	50	--	--	--	--
MAR										
06...	1450	--	--	--	--	260	--	--	--	--
APR										
01...	1055	920	--	2	--	50	1	--	11	3
28...	1105	730	8	1	1	60	0	<1	--	--
MAY										
28...	1040	--	--	--	--	50	--	--	--	--
JUN										
24...	1145	--	--	--	--	70	--	--	--	--
JUL										
23...	1400	320	20	--	--	70	--	--	--	--
AUG										
10...	1210	--	--	--	--	80	--	--	--	--

DATE	COPPER, TOTAL RECOVERABLE (UG/L AS CU)	COPPER, DISSOLVED (UG/L AS CU)	IRON, TOTAL RECOVERABLE (UG/L AS FE)	IRON, DISSOLVED (UG/L AS FE)	LEAD, TOTAL RECOVERABLE (UG/L AS PB)	LEAD, DISSOLVED (UG/L AS PB)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	MANGANESE, DISSOLVED (UG/L AS MN)	MERCURY TOTAL RECOVERABLE (UG/L AS HG)	MERCURY DISSOLVED (UG/L AS HG)
OCT										
02...	5	6	690	20	3	2	370	330	.0	.0
30...	--	--	2900	<10	--	--	220	170	--	--
NOV										
26...	--	--	2200	20	--	--	960	880	--	--
JAN										
07...	--	--	630	20	6	0	60	--	--	--
28...	--	--	1600	60	--	--	2000	2100	--	--
MAR										
06...	--	--	800	40	--	--	210	230	--	--
APR										
01...	13	--	9700	<10	6	--	310	130	.1	--
28...	5	1	1100	<10	0	2	230	200	.0	.0
MAY										
28...	--	--	130	10	--	--	160	130	--	--
JUN										
24...	--	--	2100	<10	--	--	370	280	--	--
JUL										
23...	--	--	2100	20	1	1	1300	1200	--	--
AUG										
10...	--	--	190	18	--	--	1300	1300	--	--

DATE	MOLYBDENUM, TOTAL RECOVERABLE (UG/L AS MO)	MOLYBDENUM, DISSOLVED (UG/L AS MO)	NICKEL, TOTAL RECOVERABLE (UG/L AS NI)	NICKEL, DISSOLVED (UG/L AS NI)	SELENIUM, TOTAL (UG/L AS SE)	SELENIUM, DISSOLVED (UG/L AS SE)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	ZINC, DISSOLVED (UG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)	CARBON, ORGANIC DISSOLVED (MG/L AS C)
OCT										
02...	0	0	4	0	2	2	20	5	9.3	8.4
30...	--	--	--	--	--	--	--	--	--	--
NOV										
26...	--	--	--	--	--	--	--	--	--	--
JAN										
07...	--	--	--	--	--	--	30	9	15	12
28...	--	--	--	--	--	--	--	--	--	--
MAR										
06...	--	--	--	--	--	--	--	--	--	--
APR										
01...	1	--	8	--	3	--	80	--	--	--
28...	74	<10	4	0	0	1	50	6	11	5.6
MAY										
28...	--	--	--	--	--	--	--	--	--	--
JUN										
24...	--	--	--	--	--	--	--	--	--	--
JUL										
23...	--	--	--	--	--	--	40	30	7.5	7.2
AUG										
10...	--	--	--	--	--	--	--	--	--	--

09244464 HUBBERSON GULCH NEAR HAYDEN, CO--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY)
OCT				
02...	1555	.03	59	.00
30...	1540	.14	939	.35
NOV				
26...	1100	.02	117	.01
JAN				
07...	1025	.08	97	.02
28...	1040	.02	29	.00
MAR				
06...	1450	.17	57	.03
APR				
01...	1055	.30	598	.48
APR				
28...	1105	.14	136	.05
MAY				
28...	1040	.14	173	.07
JUN				
24...	1145	.05	140	.02
JUL				
23...	1400	.01	211	.01
AUG				
10...	1210	.01	92	.00

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1630	1260	1490	1430	1420	994	1100	1220	1070	1310	---	1170
2	1670	1320	1480	1400	1460	1020	930	1240	1050	1170	---	1700
3	1610	1270	1420	1400	1490	1040	1020	1140	1050	1040	---	1380
4	---	1220	1370	1380	1520	1070	1220	1180	1150	1130	---	1760
5	---	1220	1380	1340	1500	1090	1160	1170	1080	1170	---	1560
6	---	1220	1420	1320	1510	1020	1070	1170	1100	1320	---	1510
7	---	1250	1390	1300	1510	1030	1080	1170	1060	1520	---	1770
8	---	1280	1390	1310	1500	1100	1150	1190	1060	1640	---	1780
9	---	1270	1540	1320	1500	1130	1040	1140	1100	1640	---	1770
10	---	1320	1540	1340	1500	1120	1000	1140	1100	1380	---	1760
11	---	1290	1560	1370	1510	1140	980	1180	1100	1460	---	1770
12	---	1270	1500	1460	1470	1090	1040	1160	1120	1470	---	1760
13	---	1320	1510	1530	1500	1090	1090	1160	1150	1100	---	---
14	---	1280	1590	1500	1470	1060	1120	1140	1160	1240	---	---
15	---	1510	1590	1550	1480	1050	1120	1150	1100	1530	---	---
16	---	1500	1530	1500	1500	1010	1070	1160	1090	1580	---	---
17	---	1580	1460	1500	1500	1050	1070	1150	1100	1570	---	---
18	---	1760	1430	1500	1450	1140	1040	1130	1210	1560	---	---
19	---	1790	1400	1510	1120	1170	960	1170	1280	1570	---	---
20	---	1770	1450	1560	1060	1080	970	1150	1250	1570	---	---
21	---	1480	1480	1540	1240	1100	1040	1150	1320	1570	---	---
22	---	1610	1440	1530	1280	1120	1090	1150	1350	1570	---	---
23	---	1690	1370	1540	1290	1030	1080	1180	1360	1560	---	---
24	---	1570	1340	1530	1090	1080	1100	1140	1330	1570	---	---
25	---	1490	1330	1520	931	1110	1120	1150	1460	1560	---	---
26	---	1510	1320	1510	981	951	1120	1160	1530	1570	---	---
27	---	1540	1310	1490	993	942	1170	1140	1540	1590	---	---
28	---	1530	1330	1460	1010	1010	1190	1100	1280	1590	---	---
29	---	1540	1400	1410	---	1060	1200	1030	1150	1600	---	---
30	1210	1510	1480	1460	---	1130	1220	1060	1200	---	---	---
31	1220	---	1470	1430	---	1100	---	1070	---	---	990	---

09244464 HUBBERSON GULCH NEAR HAYDEN, CO--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	18.0	5.0	8.0	1.0	2.5	1.0	2.5	1.0	4.0	1.5	2.0	.5
2	16.5	3.5	7.0	1.0	3.0	1.5	3.0	1.0	5.0	1.0	2.0	.5
3	16.5	3.0	6.5	1.0	2.5	1.0	2.5	1.0	4.5	1.0	1.0	.5
4	---	---	9.5	2.5	2.0	1.0	2.5	1.0	5.0	1.0	2.5	.5
5	---	---	10.5	1.0	2.0	1.0	1.5	1.0	5.0	1.0	2.5	.5
6	---	---	9.5	.5	2.0	1.0	1.5	.5	5.0	1.0	2.0	.0
7	---	---	11.5	3.0	2.0	1.0	1.5	.5	6.0	1.0	2.0	.5
8	---	---	9.0	1.5	2.0	.5	1.5	.5	3.0	1.5	2.5	.5
9	---	---	9.0	1.0	2.0	.5	2.0	.5	5.5	1.5	2.5	.5
10	---	---	8.0	1.0	3.0	.5	2.0	.5	2.0	.5	2.5	.5
11	---	---	8.0	.5	3.0	1.0	3.0	.5	2.5	.5	2.5	.5
12	---	---	10.5	2.5	2.5	.5	3.5	1.0	5.0	1.5	3.5	.5
13	---	---	4.0	1.0	3.0	.5	5.0	1.5	6.5	1.0	3.0	.5
14	---	---	1.5	.5	3.5	1.0	5.5	1.5	6.0	1.5	3.0	.0
15	---	---	1.5	.5	4.5	1.5	5.5	2.0	9.0	2.5	2.0	.0
16	---	---	2.0	.5	3.5	1.5	6.0	2.5	9.0	1.5	2.0	.0
17	---	---	2.5	.5	3.0	1.0	6.5	2.5	4.5	1.5	1.0	.0
18	---	---	3.5	.5	3.0	1.0	6.0	2.0	6.5	1.5	1.5	.0
19	---	---	3.5	1.0	2.5	1.0	6.0	2.0	6.0	1.0	1.5	.0
20	---	---	4.0	1.0	3.5	1.0	6.5	2.0	2.0	.5	2.5	.0
21	---	---	6.0	1.5	3.5	1.0	6.5	1.5	3.5	.5	1.5	.0
22	---	---	5.5	1.5	3.0	1.0	6.5	2.0	4.5	1.0	3.0	.0
23	---	---	3.5	2.0	2.0	.5	7.5	2.0	5.0	1.0	1.5	.0
24	---	---	4.0	2.0	2.0	.5	6.0	2.5	4.0	.5	1.0	.0
25	---	---	3.5	1.5	1.5	1.0	6.0	2.0	3.0	.5	1.0	.0
26	---	---	3.0	1.5	2.0	1.0	5.0	2.0	1.5	.5	3.5	.0
27	---	---	3.5	1.0	2.0	1.0	7.5	3.5	2.5	.5	5.0	.0
28	---	---	6.0	2.0	2.5	1.0	9.5	4.0	2.0	.5	4.5	.0
29	---	---	7.5	2.5	3.0	.5	7.5	2.5	---	---	3.5	.0
30	---	---	3.0	1.5	3.5	1.0	6.0	2.0	---	---	1.5	.0
31	6.5	.5	---	---	2.5	1.0	3.5	2.0	---	---	2.5	.0
MONTH	18.0	.5	11.5	.5	4.5	.5	9.5	.5	9.0	.5	5.0	.0

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	6.0	.0	23.5	4.5	24.0	6.5	19.5	12.5	---	---	22.5	5.5
2	2.0	.0	17.5	8.0	25.0	6.5	25.0	14.0	---	---	18.0	11.5
3	4.5	.5	11.0	5.0	19.0	6.5	27.0	11.0	---	---	20.0	9.0
4	15.0	.5	18.0	4.0	24.5	7.5	27.5	10.0	---	---	18.5	9.5
5	12.5	2.0	18.5	3.0	26.0	8.5	28.5	10.0	---	---	16.0	10.5
6	16.0	2.5	14.5	6.0	26.0	8.0	27.5	10.5	---	---	17.5	11.5
7	15.0	6.0	17.0	2.5	24.5	10.0	25.0	11.5	---	---	17.0	11.0
8	11.5	3.5	11.0	2.5	25.5	10.5	25.5	11.0	---	---	20.0	9.5
9	22.0	4.0	17.5	3.0	25.0	10.0	22.0	10.0	---	---	19.5	9.0
10	14.0	4.0	17.0	1.0	27.0	9.0	27.5	11.5	---	---	17.0	9.5
11	14.0	.5	11.0	1.0	28.0	9.0	26.5	11.5	---	---	18.0	9.0
12	15.0	.5	15.5	1.0	26.5	10.0	26.5	12.5	---	---	19.5	8.5
13	12.0	2.5	16.5	2.0	24.5	8.5	22.5	14.0	---	---	---	---
14	15.0	.0	19.0	2.0	16.5	5.5	27.5	11.5	---	---	---	---
15	17.0	3.0	14.0	5.0	19.5	5.0	25.0	10.5	---	---	---	---
16	16.0	2.5	12.0	5.5	24.0	4.0	19.0	9.5	---	---	---	---
17	16.0	4.0	10.0	5.0	24.0	7.5	17.0	11.5	---	---	---	---
18	15.0	4.0	15.0	5.5	22.0	6.0	22.5	9.5	---	---	---	---
19	15.0	6.0	16.0	4.5	25.0	6.5	22.5	10.0	---	---	---	---
20	13.5	3.0	16.5	6.5	25.0	7.5	23.0	8.0	---	---	---	---
21	15.0	3.0	10.5	3.5	25.5	8.0	22.5	8.5	---	---	---	---
22	11.5	3.5	11.0	5.5	26.5	8.0	23.5	8.5	---	---	---	---
23	19.5	1.5	18.0	7.0	26.0	5.5	23.0	8.0	---	---	---	---
24	20.0	3.0	20.5	4.5	27.0	8.5	23.0	9.5	---	---	---	---
25	22.0	4.5	18.0	6.0	27.0	8.0	23.5	11.0	---	---	---	---
26	21.0	4.0	17.0	7.5	25.5	9.5	20.0	10.0	---	---	---	---
27	19.0	4.5	19.0	9.0	26.0	11.5	22.5	8.5	---	---	---	---
28	21.5	4.0	21.0	8.0	24.5	13.5	22.5	9.5	---	---	---	---
29	21.0	3.5	22.0	9.5	28.0	10.0	22.5	10.0	---	---	---	---
30	23.5	5.0	25.5	6.5	28.0	10.0	---	---	---	---	---	---
31	---	---	19.5	9.5	---	---	---	---	14.5	3.5	---	---
MONTH	23.5	.0	25.5	1.0	28.0	4.0	28.5	8.0	14.5	3.5	22.5	5.5

09244470 STOKES GULCH NEAR HAYDEN, CO

LOCATION.--Lat 40°28'06", long 107°14'47", in NW¼NE¼ sec.22, T.6 N., R.88 W., Routt County, Hydrologic Unit 14050001, on right bank at Routt County Highway 53 crossing and 2 mi (3.2 km) south of Hayden.

DRAINAGE AREA.--13.6 mi² (35.2 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1976 to September 1981 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 6,375 ft (1,943 m), from topographic map.

REMARKS.--Records good.

AVERAGE DISCHARGE.--5 years, 1.66 ft³/s (0.047 m³/s), 1,200 acre-ft/yr (1.48 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 440 ft³/s (12.5 m³/s) Apr. 20, 1980, gage height, 6.85 ft (2.088 m); maximum gage height, 8.64 ft (2.633 m) sometime during period Apr. 14-20, 1979 (backwater from debris); no flow most of each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 16.0 ft³/s (0.45 m³/s) at 0700 May 4, gage height, 3.40 ft (1.036 m); no flow most of year.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.12	.00	.05	.00	.00	.00
2	.00	.00	.00	.00	.00	.00	.17	.00	.03	.00	.00	.00
3	.00	.00	.00	.00	.00	.00	.64	.25	.07	.00	.00	.00
4	.00	.00	.00	.00	.00	.00	.55	7.3	.17	.00	.00	.00
5	.00	.00	.00	.00	.00	.00	.41	1.7	1.0	.00	.00	.00
6	.00	.00	.00	.00	.00	.00	.21	.98	.57	.00	.00	.00
7	.00	.00	.00	.00	.00	.00	.14	.78	.29	.00	.00	.00
8	.00	.00	.00	.00	.00	.00	.27	.91	.11	.00	.00	.00
9	.00	.00	.00	.00	.00	.00	.39	.65	.04	.00	.00	.00
10	.00	.00	.00	.00	.00	.00	.32	.39	.00	.00	.00	.00
11	.00	.00	.00	.00	.00	.00	.17	.44	.00	.00	.00	.00
12	.00	.00	.00	.00	.00	.00	.09	.49	.00	.00	.00	.00
13	.00	.00	.00	.00	.00	.04	.06	1.0	.00	.00	.00	.00
14	.00	.00	.00	.00	.00	.10	.05	.57	.00	.00	.00	.00
15	.00	.00	.00	.00	.00	.11	.04	.40	.00	.00	.00	.00
16	.00	.00	.00	.00	.00	.07	.04	.34	.00	.00	.00	.00
17	.00	.00	.00	.00	.00	.07	.03	.34	.00	.00	.00	.00
18	.00	.00	.00	.00	.00	.06	.02	.33	.00	.00	.00	.00
19	.00	.00	.00	.00	.00	.12	.02	.49	.00	.00	.00	.00
20	.00	.00	.00	.00	.00	.13	.02	.43	.00	.00	.00	.00
21	.00	.00	.00	.00	.00	.13	.01	.31	.00	.00	.00	.00
22	.00	.00	.00	.00	.00	.15	.03	.29	.00	.00	.00	.00
23	.00	.00	.00	.00	.00	.16	.04	.31	.00	.00	.00	.00
24	.00	.00	.00	.00	.00	.18	.04	.47	.00	.00	.00	.00
25	.00	.00	.00	.00	.00	.18	.04	.57	.00	.00	.00	.00
26	.00	.00	.00	.00	.00	.15	.06	.37	.00	.00	.00	.00
27	.00	.00	.00	.00	.00	.15	.04	.27	.00	.00	.00	.00
28	.00	.00	.00	.00	.00	.14	.03	.25	.00	.00	.00	.00
29	.00	.00	.00	.00	---	.14	.03	.39	.00	.00	.00	.00
30	.00	.00	.00	.00	---	.13	.01	.21	.00	.00	.00	.00
31	.00	---	.00	.00	---	.13	---	.13	---	.00	.00	---
TOTAL	.00	.00	.00	.00	.00	2.34	4.09	21.36	2.33	.00	.00	.00
MEAN	.000	.000	.000	.000	.000	.075	.14	.69	.078	.000	.000	.000
MAX	.00	.00	.00	.00	.00	.18	.64	7.3	1.0	.00	.00	.00
MIN	.00	.00	.00	.00	.00	.00	.01	.00	.00	.00	.00	.00
AC-FT	.00	.00	.00	.00	.00	4.6	8.1	42	4.6	.00	.00	.00

CAL YR 1980 TOTAL 1361.85 MEAN 3.72 MAX 176 MIN .00 AC-FT 2700
WTR YR 1981 TOTAL 30.12 MEAN .083 MAX 7.3 MIN .00 AC-FT 60

09244470 STOKES GULCH NEAR HAYDEN, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1976 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: October 1976 to September 1981 (discontinued).
WATER TEMPERATURES: October 1976 to September 1981 (discontinued).
SUSPENDED SEDIMENT DISCHARGE: October 1976 to September 1981 (discontinued).

INSTRUMENTATION.--Water-quality monitor since October 1976. Pumping sediment sampler since October 1976.

REMARKS.--Flow occurred only on days shown. Daily maximum and minimum specific-conductance data available in district office.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 12,200 micromhos May 4, 1981; minimum 395 micromhos Apr. 21, 1980.
WATER TEMPERATURES: Maximum 29.0°C June 9, 1981; minimum 0.0°C Apr. 10-20, 1980.
SEDIMENT CONCENTRATIONS: Maximum daily, 13,000 mg/L May 8, 1980; no flow many days during each year.
SEDIMENT LOADS: Maximum daily, 753 tons (683 t) Apr. 21, 1980; no flow many days during each year.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 12,200 micromhos May 4; minimum, 2,990 micromhos May 4.
WATER TEMPERATURES: Maximum, 29.0°C June 9; minimum, 2.0°C Apr. 5.
SEDIMENT CONCENTRATIONS: Maximum daily, 214 mg/L May 4; no flow many days during year.
SEDIMENT LOADS: Maximum daily, 3.5 tons (3.2 t) May 4; no flow many days during year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	HARD-NESS (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO
MAR											
24...	1701	.50	--	--	--	27.0	--	--	--	--	--
APR											
01...	1145	.12	10000	9960	8.6	9.0	4000	280	800	1400	9.6
08...	1550	.20	--	--	--	10.0	--	--	--	--	--
MAY											
13...	1130	1.2	7340	7340	8.4	12.0	2800	240	530	1000	8.3
28...	1115	.27	9970	9970	8.4	17.0	4000	270	810	1400	9.6
31...	1130	1.2	--	--	--	12.0	--	--	--	--	--

DATE	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)
MAR										
24...	--	--	--	--	--	--	--	--	--	--
APR										
01...	8.0	390	6200	31	.3	1.0	9280	12.6	73	.000
08...	--	--	--	--	--	--	--	--	--	--
MAY										
13...	8.4	350	4300	180	.3	.1	6620	9.0	35	.010
28...	8.6	440	6100	240	.2	.3	9280	12.6	41	.010
31...	--	--	--	--	--	--	--	--	--	--

DATE	TIME	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL)	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS-SOLVED (UG/L AS AS)	BORON, DIS-SOLVED (UG/L AS B)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD)	CADMIUM DIS-SOLVED (UG/L AS CD)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU)	COPPER, DIS-SOLVED (UG/L AS CU)
APR										
01...	1145	60	10	1	2	440	1	0	9	5
MAY										
13...	1130	--	--	--	--	430	--	--	--	--
28...	1115	--	--	--	--	590	--	--	--	--

09244470 STOKES GULCH NEAR HAYDEN, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB)	LEAD, DIS-SOLVED (UG/L AS PB)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG)	MERCURY DIS-SOLVED (UG/L AS HG)	MOLYB-DENUM, TOTAL RECOV-ERABLE (UG/L AS MO)
APR									
01...	120	100	0	0	30	30	.1	.1	11
MAY									
13...	110	70	--	--	20	30	--	--	--
28...	80	70	--	--	20	30	--	--	--

DATE	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI)	NICKEL, DIS-SOLVED (UG/L AS NI)	SELE-NIUM, TOTAL (UG/L AS SE)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN)	ZINC, DIS-SOLVED (UG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C)
APR									
01...	5	4	3	270	300	30	20	39	42
MAY									
13...	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)
MAR				
24...	1701	.50	29	.04
APR				
01...	1145	.12	57	.02
08...	1550	.20	19	.01

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)
MAY				
28...	1115	.27	37	.03
31...	1130	1.2	22	.07

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1						---	9260	---	9760			
2						---	9200	---	9880			
3						---	9100	9240	9680			
4						---	8980	6530	9360			
5						---	9230	---	9840			
6						---	9060	---	10300			
7						---	9240	4450	10300			
8						---	9250	4850	9920			
9						---	9040	5720	9670			
10						---	8480	6320	---			
11						---	8310	6540	---			
12						---	8390	6870	---			
13						---	8420	7310	---			
14						---	8380	7970	---			
15						---	8540	8600	---			
16						---	8600	8890	---			
17						---	8700	8870	---			
18						---	8770	8970	---			
19						---	8820	9070	---			
20						---	8890	9190	---			
21						---	8930	9250	---			
22						---	8850	9140	---			
23						---	8940	9050	---			
24						8930	9200	9250	---			
25						8770	9460	9600	---			
26						8800	9570	9730	---			
27						9130	9680	9710	---			
28						9710	9660	9710	---			
29						9740	9800	9750	---			
30						9430	9930	9760	---			
31						9210	---	9770	---			

09244470 STOKES GULCH NEAR HAYDEN, CO--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1											---	---
2											---	---
3											---	---
4											---	---
5											---	---
6											---	---
7											---	---
8											---	---
9											---	---
10											---	---
11											---	---
12											---	---
13											---	---
14											---	---
15											---	---
16											---	---
17											---	---
18											---	---
19											---	---
20											---	---
21											---	---
22											---	---
23											---	---
24											7.5	4.5
25											10.0	2.5
26											12.5	6.0
27											13.0	7.0
28											12.5	6.5
29											9.0	6.0
30											6.5	3.5
31											10.0	2.5

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	12.5	3.5	---	---	25.5	16.0						
2	13.5	6.0	---	---	26.5	17.0						
3	9.5	5.5	16.0	13.5	22.5	18.5						
4	7.0	4.0	17.5	12.0	25.5	16.5						
5	10.5	2.0	18.5	11.5	26.5	18.5						
6	12.5	4.5	17.5	13.5	28.0	20.5						
7	8.5	6.0	18.0	9.5	28.5	21.0						
8	10.5	5.0	9.0	6.0	29.0	21.0						
9	13.5	5.5	12.5	5.0	29.0	20.5						
10	16.0	7.0	14.0	6.0	---	---						
11	15.5	8.0	10.5	6.5	---	---						
12	16.0	7.5	11.0	5.5	---	---						
13	17.5	9.0	16.0	6.0	---	---						
14	14.5	7.5	17.0	8.5	---	---						
15	16.0	9.5	14.0	11.0	---	---						
16	16.0	9.0	12.5	10.0	---	---						
17	16.5	10.0	16.0	9.5	---	---						
18	15.5	10.0	19.5	12.0	---	---						
19	17.5	11.5	17.5	12.5	---	---						
20	14.0	9.0	16.5	12.5	---	---						
21	12.5	8.5	12.5	10.5	---	---						
22	13.5	7.5	14.5	10.0	---	---						
23	14.5	7.5	18.5	11.5	---	---						
24	19.0	9.0	20.5	11.5	---	---						
25	18.5	11.0	20.5	14.5	---	---						
26	18.0	9.5	19.5	15.5	---	---						
27	17.0	10.0	22.0	16.0	---	---						
28	25.5	10.5	22.0	16.0	---	---						
29	25.0	15.5	24.0	16.5	---	---						
30	26.0	16.0	25.5	16.0	---	---						
31	---	---	23.0	18.5	---	---						

09244470 STOKES GULCH NEAR HAYDEN, CO--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
		JANUARY			FEBRUARY			MARCH	
1	.00			.00			.00	---	---
2	.00			.00			.00	---	---
3	.00			.00			.00	---	---
4	.00			.00			.00	---	---
5	.00			.00			.00	---	---
6	.00			.00			.00	---	---
7	.00			.00			.00	---	---
8	.00			.00			.00	---	---
9	.00			.00			.00	---	---
10	.00			.00			.00	---	---
11	.00			.00			.00	---	---
12	.00			.00			.00	---	---
13	.00			.00			.04	---	.00
14	.00			.00			.10	---	.01
15	.00			.00			.11	---	.01
16	.00			.00			.07	---	.01
17	.00			.00			.07	---	.01
18	.00			.00			.06	---	.01
19	.00			.00			.12	---	.01
20	.00			.00			.13	---	.01
21	.00			.00			.13	---	.01
22	.00			.00			.15	---	.02
23	.00			.00			.16	---	.02
24	.00			.00			.18	50	.02
25	.00			.00			.18	70	.03
26	.00			.00			.15	---	.02
27	.00			.00			.15	---	.02
28	.00			.00			.14	---	.02
29	.00			---			.14	---	.02
30	.00			---			.13	---	.02
31	.00			---			.13	---	.02
		APRIL			MAY			JUNE	
1	.12	25	.00	.00	---	---	.05		.01
2	.17	40	.02	.00	---	---	.03		.00
3	.64	35	.06	.25	45	.03	.07		.01
4	.55	40	.06	7.3	214	3.5	.17		.03
5	.41	---	.05	1.7	118	.60	1.0		.10
6	.21	---	.02	.98	60	.16	.57		.03
7	.14	---	.01	.78	48	.09	.29		.02
8	.27	37	.03	.91	---	.10	.11		.01
9	.39	20	.02	.65	45	.08	.04		.00
10	.32	23	.02	.39	52	.05	.00		---
11	.17	37	.02	.44	50	.06	.00		---
12	.09	26	.00	.49	50	.07	.00		---
13	.06	20	.00	1.0	68	.18	.00		---
14	.05	24	.00	.57	45	.07	.00		---
15	.04	24	.00	.40	38	.04	.00		---
16	.04	45	.00	.34	40	.04	.00		---
17	.03	70	.00	.34	42	.04	.00		---
18	.02	---	.00	.33	55	.05	.00		---
19	.02	---	.00	.49	62	.08	.00		---
20	.02	50	.00	.43	48	.06	.00		---
21	.01	75	.00	.31	45	.04	.00		---
22	.03	65	.00	.29	100	.08	.00		---
23	.04	50	.00	.31	65	.05	.00		---
24	.04	65	.00	.47	50	.06	.00		---
25	.04	60	.00	.57	60	.09	.00		---
26	.06	50	.00	.37	50	.05	.00		---
27	.04	50	.00	.27	43	.03	.00		---
28	.03	30	.00	.25	40	.03	.00		---
29	.03	---	.00	.39	---	.03	.00		---
30	.01	---	.00	.21	---	.02	.00		---
31	---	---	---	.13	---	.01	---		
TOTAL	4.09	---	0.31	21.36	---	5.79	2.33		0.21

09245000 ELKHEAD CREEK NEAR ELKHEAD, CO

LOCATION.--Lat 40°40'11", long 107°17'04", in NW¼NE¼ sec.8, T.8 N., R.88 W., Routt County, Hydrologic Unit 14050001, on right bank 0.2 mi (0.3 km) upstream from North Fork Elkhead Creek, 4.5 mi (7.2 km) northwest of Elkhead, and 12 mi (19 km) north of Hayden.

DRAINAGE AREA.--64.2 mi² (166.3 km²).

PERIOD OF RECORD.--January to November 1910 and May to November 1920 (monthly discharge only, published in WSP 1313; published as "at Hayes Ranch"), April 1953 to current year.

REVISED RECORDS.--WSP 1733: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 6,845 ft (2,086 m), from topographic map. Prior to Nov. 30, 1920, nonrecording gage or water-stage recorder 675 ft (210 m) upstream at different datum.

REMARKS.--Records good except those for winter period and those above 50 ft³/s (1.42 m³/s), which are poor. No diversion above station. Several observations of specific conductance and water temperature were obtained and are published elsewhere in this report.

AVERAGE DISCHARGE.--28 years (water years 1954-81), 53.6 ft³/s (1.518 m³/s), 38,830 acre-ft/yr (47.9 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,870 ft³/s (53.0 m³/s) May 17, 1978, gage height, 7.07 ft (2.155 m); maximum daily discharge, 1,660 ft³/s (47.0 m³/s) May 22, 1920; no flow Sept. 1, 1954, Sept. 12-19, 24, 1955, Aug. 27-29, 1961, Aug. 14-19, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 650 ft³/s (18.4 m³/s) at 0100 May 23, gage height, 5.16 ft (1.573 m); no peak above base of 800 ft³/s (23 m³/s); minimum daily, 0.34 ft³/s (0.010 m³/s) Aug. 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.4	4.4	4.8	5.0	5.2	7.2	13	76	164	9.4	2.2	2.2
2	2.2	4.3	4.8	5.0	5.2	7.2	12	84	136	9.0	2.0	1.9
3	2.1	4.4	4.9	5.0	5.2	7.4	9.5	254	141	20	1.7	2.4
4	2.0	4.4	4.9	5.0	5.4	7.4	10	235	173	19	1.8	2.3
5	2.0	4.4	5.0	5.0	5.4	7.6	14	164	121	13	1.3	2.4
6	1.9	4.4	5.0	5.0	5.4	7.6	14	164	100	9.6	1.1	2.6
7	1.8	4.5	5.0	5.0	5.4	7.6	9.8	147	114	8.0	.83	3.4
8	1.7	4.5	5.0	5.0	5.6	7.8	9.8	107	86	6.9	.67	3.5
9	1.7	4.3	5.0	5.0	5.6	7.8	14	86	71	6.0	.54	3.5
10	1.7	4.1	5.0	5.0	5.6	7.8	15	70	61	5.6	.42	3.1
11	1.7	4.3	5.0	5.0	5.8	7.8	14	75	66	5.0	.34	4.3
12	1.8	5.5	5.0	5.0	5.8	8.0	38	75	48	4.6	.37	4.3
13	3.9	5.5	5.0	5.0	5.8	8.2	55	72	39	5.0	.55	3.2
14	5.8	4.3	5.0	5.0	6.0	8.4	65	64	37	5.3	.69	2.8
15	7.2	4.3	5.0	5.0	6.0	8.6	76	59	38	4.7	.86	3.4
16	7.7	4.3	5.0	5.0	6.0	8.8	99	58	33	4.0	1.0	3.4
17	7.4	4.3	5.0	5.0	6.2	9.0	142	76	28	3.6	1.3	3.1
18	6.9	4.3	5.0	5.0	6.2	8.7	161	83	23	3.7	3.0	2.7
19	6.2	4.3	5.0	5.0	6.2	17	202	65	21	3.7	2.5	2.3
20	6.2	4.3	5.0	5.0	6.4	7.1	171	64	18	3.5	2.2	2.1
21	6.2	4.4	5.0	5.0	6.4	8.7	117	125	16	3.2	1.7	1.9
22	6.7	4.4	5.0	5.0	6.4	15	93	480	14	2.7	1.5	2.5
23	4.6	4.4	5.0	5.0	6.6	14	75	507	12	2.4	1.5	3.6
24	4.4	4.4	5.0	5.0	6.6	7.7	99	403	12	2.2	1.6	4.3
25	4.6	4.5	5.0	5.0	6.8	16	138	374	11	2.1	2.1	4.5
26	4.6	4.5	5.0	5.0	7.0	8.2	133	359	9.9	2.5	2.5	5.1
27	4.6	4.6	5.0	5.0	7.0	9.1	116	352	9.2	3.8	2.2	6.1
28	5.5	4.6	5.0	5.0	7.2	14	95	299	11	3.8	1.7	6.8
29	5.5	4.7	5.0	5.0	---	13	84	253	13	3.1	1.5	6.4
30	5.0	4.7	5.0	5.0	---	14	81	211	11	2.8	1.9	6.3
31	4.8	---	5.0	5.0	---	9.8	---	191	---	2.6	2.8	---
TOTAL	130.8	134.3	154.4	155.0	168.4	296.5	2175.1	5632	1637.1	180.8	46.37	106.4
MEAN	4.22	4.48	4.98	5.00	6.01	9.56	72.5	182	54.6	5.83	1.50	3.55
MAX	7.7	5.5	5.0	5.0	7.2	17	202	507	173	20	3.0	6.8
MIN	1.7	4.1	4.8	5.0	5.2	7.1	9.5	58	9.2	2.1	.34	1.9
AC-FT	259	266	306	307	334	588	4310	11170	3250	359	92	211

CAL YR 1980 TOTAL 27322.30 MEAN 74.7 MAX 974 MIN 1.7 AC-FT 54190
WTR YR 1981 TOTAL 10817.17 MEAN 29.6 MAX 507 MIN .34 AC-FT 21460

09250000 MILK CREEK NEAR THORNBURGH, CO

LOCATION.--Lat 40°11'37", long 107°43'57", in NE¼ sec.32, T.3 N., R.92 W., Rio Blanco County, Hydrologic Unit 14050002, on right bank 2.2 mi (3.5 km) southwest of Thornburgh and 3.0 mi (4.8 km) upstream from Little Creek.

DRAINAGE AREA.--65 mi^2 (168 km^2), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1952 to current year. Published as "near Thornburg" October 1952 to September 1968.

GAGE.--Water-stage recorder. Datum of gage is 6,599.32 ft (2,011.473 m), National Geodetic Vertical Datum of 1929 (levels by U.S. Bureau of Reclamation).

REMARKS.--Records good except those for winter period, which are poor. Diversion for irrigation of about 1,321 acres (5.35 km^2) above station.

AVERAGE DISCHARGE.--29 years, 24.8 ft^3/s (0.702 m^3/s), 17,970 acre-ft/yr (22.2 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,050 ft^3/s (29.7 m^3/s) May 10, 1974, gage height, 5.03 ft (1.533 m), from rating curve extended above 340 ft^3/s (9.63 m^3/s); maximum gage height, 5.52 ft (1.682 m) June 1, 1957; minimum daily discharge, 0.20 ft^3/s (0.006 m^3/s) for several days in 1956, 1963, and 1966.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 188 ft^3/s (5.32 m^3/s) at 2300 May 3, gage height, 3.71 ft (1.131 m), no peak above base of 250 ft^3/s (7.1 m^3/s); minimum daily, 0.63 ft^3/s (0.018 m^3/s) Aug. 31.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.91	2.6	1.7	2.4	3.0	3.9	7.4	96	78	3.2	2.4	.76
2	.87	2.4	1.8	2.5	3.0	3.8	12	99	66	4.0	2.0	.84
3	.91	2.4	1.6	3.0	3.0	4.1	15	162	64	4.3	1.7	.95
4	.92	2.3	1.7	2.7	3.0	4.0	9.1	133	73	4.3	1.5	.90
5	.98	2.3	1.7	2.7	3.0	3.9	9.4	109	57	3.4	1.4	.94
6	.92	2.3	1.7	2.8	3.0	4.6	10	121	50	3.1	1.3	1.0
7	.97	2.4	1.9	2.8	3.0	4.4	11	108	53	2.8	1.0	1.6
8	1.0	2.0	1.6	2.7	3.0	4.5	9.3	94	45	2.8	1.3	1.6
9	1.0	1.5	2.0	2.4	3.0	4.0	8.1	85	38	2.5	1.3	1.5
10	1.0	2.2	1.6	2.5	3.0	4.0	13	75	32	2.7	1.2	1.7
11	1.1	2.2	1.7	2.5	2.5	3.8	19	74	30	3.1	1.4	2.1
12	1.1	2.2	2.3	2.6	2.5	3.5	22	71	26	4.9	1.6	2.0
13	1.3	2.2	2.1	2.6	3.0	4.0	23	67	20	7.1	1.7	2.5
14	2.4	2.2	1.7	2.5	3.0	3.9	25	63	16	6.1	1.7	2.0
15	3.6	2.2	1.7	2.6	3.0	3.8	30	64	16	4.8	1.5	1.7
16	3.5	2.2	2.4	2.5	3.0	3.8	36	65	14	4.2	2.1	1.5
17	3.3	2.2	2.7	2.5	3.0	4.8	52	72	11	4.2	1.6	1.5
18	3.1	2.2	2.3	2.5	3.0	4.3	56	79	11	3.6	1.5	1.4
19	3.2	2.2	2.0	2.5	3.0	4.7	69	78	10	3.1	1.5	1.3
20	3.0	2.2	3.9	2.6	3.0	5.5	80	75	8.7	2.8	1.3	1.2
21	3.0	2.1	1.7	2.6	4.0	6.5	52	87	7.5	2.7	.89	1.2
22	2.6	2.1	1.8	3.9	4.0	5.2	50	93	5.5	2.7	.81	1.1
23	2.7	2.1	1.9	2.9	7.0	6.9	43	107	4.8	2.6	.80	1.1
24	2.3	2.0	1.9	3.6	5.9	8.8	53	104	4.8	2.6	.79	1.1
25	1.9	1.8	2.1	2.6	5.9	6.1	67	97	4.5	2.7	.79	1.1
26	2.1	2.0	2.1	2.6	4.6	8.7	79	94	3.5	5.4	.72	1.2
27	2.6	2.0	2.3	3.0	4.4	11	87	87	2.8	11	.83	1.2
28	2.4	1.8	2.2	3.0	3.7	8.8	84	97	3.2	5.2	.69	1.2
29	2.2	1.8	2.2	3.0	---	6.8	85	91	3.9	3.6	.65	1.3
30	2.6	1.8	2.2	3.0	---	7.9	90	79	3.3	2.9	.64	1.4
31	2.7	---	2.3	3.0	---	6.6	---	80	---	2.8	.63	---
TOTAL	62.18	63.9	62.8	85.1	98.5	166.6	1206.3	2806	762.5	121.2	39.24	40.89
MEAN	2.01	2.13	2.03	2.75	3.52	5.37	40.2	90.5	25.4	3.91	1.27	1.36
MAX	3.6	2.6	3.9	3.9	7.0	11	90	162	78	11	2.4	2.5
MIN	.87	1.5	1.6	2.4	2.5	3.5	7.4	63	2.8	2.5	.63	.76
AC-FT	123	127	125	169	195	330	2390	5570	1510	240	78	81

CAL YR 1980 TOTAL 11420.44 MEAN 31.2 MAX 327 MIN .87 AC-FT 22650
WTR YR 1981 TOTAL 5515.21 MEAN 15.1 MAX 162 MIN .63 AC-FT 10940

09250000 Milk Creek near Thornburgh, Co--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--May to September 1981

WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	HARD-NESS (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO
MAY 15...	1430	66	365	368	7.9	--	--	170	49	12	9.8	.3
JUN 29...	1330	4.0	950	874	8.1	25.0	8.0	520	130	47	42	.8
JUL 22...	1015	2.7	1120	1100	8.2	18.5	7.3	560	140	50	37	.7
AUG 27...	1300	.83	900	900	8.1	23.0	8.8	440	90	53	30	.7

DATE	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	POTAS-SIUM 40 DIS-SOLVED (PCI/L AS K40)
MAY 15...	1.6	110	73	3.3	.1	8.4	225	.31	40.1	.46	1.2
JUN 29...	3.3	250	330	8.6	.2	13	725	.99	7.8	.04	2.5
JUL 22...	3.8	250	360	6.3	.2	14	764	1.0	5.6	.00	2.8
AUG 27...	3.2	240	270	10	.3	8.9	611	.83	1.4	.20	--

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)
JUL 22...	1015	2.7	92	.67
AUG 27...	1300	.83	54	.12

09250507 WILSON CREEK ABOVE TAYLOR CREEK, NEAR AXIAL, CO

LOCATION.--Lat 40°18'53", long 107°47'58", in NW¼SW¼ sec.14, T.4 N., R.93 W., Moffatt County, Hydrologic Unit 14050002, on left bank about 200 ft (61 m) upstream from Moffat County Road 17, about 50 ft (15 m) upstream from confluence of Taylor Creek, and 2.4 mi (3.9 km) north of Axial.

DRAINAGE AREA.--20.0 mi^2 (51.8 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1980 to September 1981 (discontinued). Records for October 1974 to September 1980 at site 700 ft (213 m) downstream published as "near Axial", (station 09250600) are not equivalent, owing to difference in drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 6,315 ft (1,925 m), from topographic map.

REMARKS.--Records fair.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3.4 ft^3/s (0.096 m^3/s) at 1900 May 3, gage height, 0.38 ft (0.116 m); minimum daily, 0.26 ft^3/s (0.007 m^3/s) July 23 and 24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.0	.40	.96	1.0	1.0	.75	1.2	1.1	1.7	1.0	.42	.41
2	1.0	.40	.86	1.2	1.0	.95	1.4	1.3	1.5	1.2	.41	.44
3	1.0	.40	1.1	1.2	1.0	.97	1.8	2.3	1.4	1.2	.43	.48
4	1.0	.40	.76	1.2	.82	.98	1.1	2.6	1.6	1.1	.41	.42
5	1.0	.40	.78	1.3	.80	1.2	1.1	1.7	1.4	1.1	.37	.38
6	.95	.50	.90	1.1	.73	1.0	1.4	1.7	1.4	.95	.43	.50
7	.95	.50	.83	.73	.80	.84	.86	1.7	1.3	.81	.40	.49
8	.86	.50	.86	.83	.90	.86	.90	1.5	1.3	.70	.40	.50
9	.70	.50	.65	.86	.90	.97	.90	1.4	1.0	.71	.37	.47
10	.70	.50	.65	.98	.90	.98	.91	1.2	1.1	.64	.37	.49
11	.63	.50	.68	1.0	.90	.90	1.5	1.3	1.1	.64	.39	.43
12	.70	.50	.76	1.0	.99	1.0	1.5	1.4	1.1	.71	.40	.38
13	.76	.50	.78	1.0	1.1	.94	1.5	1.4	.99	.78	.47	.41
14	1.0	.50	.81	1.0	1.1	.86	1.5	1.4	1.0	.75	.44	.40
15	1.2	.50	.93	1.1	1.1	.78	1.7	1.4	1.0	.71	.43	.42
16	1.0	.50	.95	1.1	1.2	.79	1.9	1.4	1.0	.59	.91	.40
17	1.1	.50	.98	1.1	1.2	1.1	1.9	1.6	1.0	.62	.60	.46
18	1.1	.50	1.1	1.2	1.1	1.1	1.9	1.6	.95	.63	.60	.37
19	1.0	.60	1.1	1.2	1.1	.84	1.5	1.5	.95	.59	.43	.40
20	.94	.60	1.1	1.0	1.1	1.1	1.6	1.3	.81	.55	.40	.33
21	.93	.60	1.1	1.0	.86	1.3	1.5	1.4	.71	.41	.36	.31
22	.74	.60	1.2	1.0	.77	1.3	1.5	1.9	.64	.36	.35	.32
23	.68	.60	1.2	1.0	.76	1.3	1.4	1.8	.72	.24	.32	.36
24	.48	.60	1.1	1.0	.95	1.1	1.3	1.7	.74	.24	.38	.33
25	.48	.60	1.3	1.1	.71	1.2	1.4	1.7	.77	.58	.35	.28
26	.42	.60	1.3	1.0	.79	1.2	1.3	1.8	.93	.43	.33	.26
27	.41	.59	1.2	1.1	.81	1.2	1.2	1.9	1.0	.86	.33	.29
28	.47	.78	1.2	1.1	.86	1.2	1.2	1.8	1.3	.38	.38	.28
29	.47	.88	.98	1.1	---	1.2	1.1	1.7	1.2	.42	.36	.34
30	.47	.87	1.0	1.0	---	1.4	1.0	1.6	1.1	.41	.43	.30
31	.40	---	1.0	.92	---	1.0	---	1.6	---	.37	.40	---
TOTAL	24.54	16.42	30.12	32.42	26.25	32.31	40.97	49.7	32.71	20.68	13.07	11.65
MEAN	.79	.55	.97	1.05	.94	1.04	1.37	1.60	1.09	.67	.42	.39
MAX	1.2	.88	1.3	1.3	1.2	1.4	1.9	2.6	1.7	1.2	.91	.50
MIN	.40	.40	.65	.73	.71	.75	.86	1.1	.64	.24	.32	.26
AC-FT	49	33	60	64	52	64	81	99	65	41	26	23

WTR YR 1981 TOTAL 330.84 MEAN .91 MAX 2.6 MIN .24 AC-FT 656

09250507 WILSON CREEK ABOVE TAYLOR CREEK NEAR AXIAL, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--May 1975 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: October 1975 to current year.
WATER TEMPERATURE: October 1975 to current year.
SUSPENDED-SEDIMENT DISCHARGE: October 1975 to current year.

INSTRUMENTATION.--Water-quality monitor since October 1975. Pumping sediment sampler since October 1975.

REMARKS.--This station moved upstream of Taylor Creek inflow, formerly published as station 09250600 Wilson Creek near Axial. Daily maximum and minimum specific-conductance data available in the district office.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 2,780 micromhos Oct. 7, 1975; minimum, 192 micromhos Feb. 15, 1980.
WATER TEMPERATURES: Maximum, 27.5°C Aug. 12, 1976; minimum, 0.0°C many days during winter months.
SEDIMENT CONCENTRATIONS: Maximum daily, 36,800 mg/L May 13, 1980; minimum daily, 5 mg/L estimated for several days in January 1977, Sept. 18, 1979.
SEDIMENT LOADS: Maximum daily, 3,870 tons (3,510 t) May 13, 14, 1980; minimum daily, 0.00 ton (0.00 t) several days in January 1977.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 2,150 micromhos Jan. 11, March 11; minimum, 1,080 micromhos July 2.
WATER TEMPERATURES: Maximum, 27.0°C July 10; minimum, 0.0°C on many days during November to March.
SEDIMENT CONCENTRATIONS: Maximum daily, 8,790 mg/L May 3; minimum daily, 11 mg/L Sept. 17.
SEDIMENT LOADS: Maximum daily, 58 tons (53 t) May 3; minimum daily 0.01 ton (0.01 t) several days in August and September.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	HARD-NESS (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO
FEB												
24...	1315	1.3	1690	1660	8.1	5.5	10.1	680	110	98	140	2.3
APR												
01...	1450	1.4	1670	1750	8.2	11.0	8.7	710	120	100	150	2.4
10...	1515	1.1	--	--	--	--	--	--	--	--	--	--
28...	1610	1.2	1780	1790	8.1	19.5	6.4	650	110	92	140	2.4
MAY												
03...	1530	1.9	1400	--	8.0	12.0	--	--	--	--	--	--
03...	2045	3.4	1520	--	8.0	11.0	--	--	--	--	--	--
05...	1320	17	--	--	--	--	--	--	--	--	--	--
23...	0800	3.0	1300	--	--	9.0	--	--	--	--	--	--
27...	0835	3.5	1380	--	--	11.0	--	--	--	--	--	--
29...	1030	1.7	1510	1520	8.1	14.0	7.6	580	96	83	120	2.2
JUN												
12...	1410	2.0	1680	--	--	19.5	--	--	--	--	--	--
25...	1045	.76	1700	1680	8.1	16.0	--	620	88	97	143	2.5
JUL												
02...	1855	1.7	1140	--	--	19.0	--	--	--	--	--	--
15...	1040	.95	1800	1720	8.1	16.0	7.9	640	92	100	150	2.6
AUG												
07...	1350	.44	1780	1780	8.3	24.0	7.4	670	85	110	160	3.2
SEP												
17...	1210	.50	1820	1990	8.3	16.5	9.8	730	93	120	180	3.4

09250507 WILSON CREEK ABOVE TAYLOR CREEK NEAR AXIAL, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	POTASSIUM, DISSOLVED (MG/L AS K)	ALKALINITY LAB (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, DISSOLVED (TONS PER DAY)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)
FEB											
24...	7.9	370	450	100	.5	14	1330	1.8	4.7	1.9	.000
APR											
01...	8.5	370	460	110	.5	13	1190	1.6	4.6	1.4	.000
10...	--	--	--	--	--	--	--	--	--	--	--
28...	10	290	480	130	.5	15	1160	1.6	3.8	1.4	--
MAY											
03...	--	--	--	--	--	--	--	--	--	--	--
03...	--	--	--	--	--	--	--	--	--	--	--
05...	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--
29...	8.4	360	350	100	.5	13	992	1.4	4.6	1.0	.080
JUN											
12...	--	--	--	--	--	--	--	--	--	--	--
25...	8.9	360	410	120	.4	13	1090	1.5	2.2	.97	.050
JUL											
02...	--	--	--	--	--	--	--	--	--	--	--
15...	8.4	350	450	120	.4	16	1150	1.6	3.0	.93	.020
AUG											
07...	9.8	350	460	130	.5	11	1180	1.6	1.4	.44	.000
SEP											
17...	8.9	360	520	130	.5	12	1280	1.7	1.7	.48	.000

DATE	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL)	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DISSOLVED (UG/L AS AS)	BORON, DISSOLVED (UG/L AS B)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	COBALT, TOTAL RECOVERABLE (UG/L AS CO)	COPPER, TOTAL RECOVERABLE (UG/L AS CU)
FEB										
24...	--	--	--	--	130	--	--	--	--	--
APR										
01...	37000	--	5	--	310	1	--	24	17	80
28...	8000	30	3	2	210	0	<1	--	--	32
MAY										
03...	--	--	--	--	--	5	--	21	86	--
03...	--	--	--	--	--	3	--	4	84	330
23...	40000	--	--	--	--	2	--	90	42	140
27...	24000	--	--	--	--	1	--	20	19	70
29...	--	--	--	--	160	--	--	--	--	--
JUN										
12...	4600	--	4	--	--	--	--	13	--	--
25...	--	--	--	--	200	--	--	--	--	--
JUL										
02...	89000	--	--	--	--	1	--	170	56	170
15...	760	20	--	--	190	--	--	--	--	--
AUG										
07...	--	--	--	--	220	--	--	--	--	--
SEP										
17...	--	--	--	--	210	--	--	--	--	--

09250507 WILSON CREEK ABOVE TAYLOR CREEK NEAR AXIAL, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB)	LEAD, DIS-SOLVED (UG/L AS PB)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG)	MERCURY DIS-SOLVED (UG/L AS HG)	MOLYB-DENUM, TOTAL RECOV-ERABLE (UG/L AS MO)
FEB										
24...	--	19000	10	--	--	520	40	--	--	--
APR										
01...	--	46000	60	46	--	1200	30	.2	--	2
28...	4	17000	<10	14	3	500	20	.1	.0	2
MAY										
03...	--	--	--	--	--	--	--	--	--	1
03...	--	140000	--	200	--	4600	--	--	--	0
23...	--	71000	--	93	--	2600	--	--	--	2
27...	--	37000	--	44	--	1300	--	--	--	3
29...	--	15000	<10	--	--	400	10	--	--	--
JUN										
12...	--	--	--	--	--	--	--	.0	--	0
25...	--	1000	<10	--	--	70	20	--	--	--
JUL										
02...	--	120000	--	150	--	3100	--	--	--	0
15...	--	1800	10	2	2	100	30	--	--	--
AUG										
07...	--	290	<10	--	--	40	24	--	--	--
SEP										
17...	--	230	<10	--	--	70	54	--	--	--

DATE	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI)	NICKEL, DIS-SOLVED (UG/L AS NI)	SELE-NIUM, TOTAL (UG/L AS SE)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN)	ZINC, DIS-SOLVED (UG/L AS ZN)	POTAS-SIUM 40 DIS-SOLVED (PCI/L AS K40)	CARBON, ORGANIC TOTAL (MG/L AS C)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C)
FEB										
24...	--	--	--	--	--	--	--	5.9	--	--
APR										
01...	--	44	--	6	--	330	--	6.3	--	--
28...	<10	23	2	6	9	110	10	7.5	26	12
MAY										
03...	--	--	--	--	--	--	--	--	--	--
03...	--	240	--	--	--	1000	--	--	--	--
23...	--	110	--	--	--	480	--	--	--	--
27...	--	54	--	--	--	240	--	--	--	--
29...	--	--	--	--	--	--	--	6.3	--	--
JUN										
12...	--	--	--	7	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	6.6	--	--
JUL										
02...	--	110	--	--	--	820	--	--	--	--
15...	--	--	--	--	--	20	10	6.3	5.5	4.3
AUG										
07...	--	--	--	--	--	--	--	--	--	--
SEP										
17...	--	--	--	--	--	--	--	--	--	--

09250507 WILSON CREEK ABOVE TAYLOR CREEK NEAR AXIAL, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
APR					
01...	1450	1.4	3890	15	81
10...	1515	1.1	1120	3.4	93
28...	1610	1.2	1310	4.2	74

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
MAY					
05...	1320	17	3010	140	80

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1750	1860	1760	1860	1780	---	1680	1730	1540	1650	1780	---
2	1770	1850	1780	1860	1870	---	1720	1680	1560	1590	1790	---
3	1780	1850	1730	1840	1790	---	1630	1610	1560	1620	1720	---
4	1790	1850	1770	1770	1750	---	---	---	---	1690	1760	---
5	1800	1840	1840	1760	1770	1910	1710	1650	1550	1630	1790	---
6	1800	1750	1850	1900	1770	1880	---	1540	1570	1700	1830	---
7	1800	1790	1780	1910	1890	1880	---	1580	1570	1720	1940	---
8	1800	1790	1940	1880	1750	1920	1740	1630	1580	1700	1800	---
9	1800	1740	2030	1910	1730	1920	1750	1640	1590	1610	1690	---
10	1810	1740	2000	1910	1740	1800	1740	1650	1550	1600	1670	---
11	1830	1730	1900	1900	1780	1750	---	1650	1650	1660	1680	---
12	1830	1710	1890	1810	1720	1840	---	1580	1680	1600	1700	---
13	1810	1660	1940	1670	1700	1820	---	---	1650	1630	1700	---
14	1760	1800	1950	1650	---	1840	---	1700	1620	1690	1770	---
15	1640	1980	1880	1600	1650	1840	---	1650	1610	1730	1700	---
16	1610	1970	1820	1680	1710	1840	---	1570	1600	1730	---	---
17	1560	1970	1800	1890	1760	---	---	1560	1630	1710	1810	---
18	1790	1950	1770	1890	1760	---	---	1620	1620	1720	1790	---
19	1820	1890	1760	1920	1760	---	---	1620	1670	1710	1800	---
20	1800	1890	1830	1910	1750	---	---	1590	1740	1720	1870	---
21	1780	1900	1770	1890	---	---	---	1560	1750	1780	---	---
22	1780	1900	1710	1830	---	---	---	1560	1740	---	---	---
23	1780	1830	1720	1790	---	---	---	1560	1710	---	---	1800
24	1830	1820	1780	1740	---	---	1580	1570	1730	---	1850	1770
25	1900	1810	1750	1670	1830	---	1580	1530	1740	---	1820	1830
26	1840	1840	1760	1720	1850	---	---	1540	1730	---	1900	1820
27	1780	1900	1810	1740	---	---	---	1520	1720	---	---	1800
28	1850	1790	1820	1660	---	---	---	1510	1660	1820	---	---
29	1880	1710	1870	1670	---	---	---	1530	1650	---	---	---
30	1820	1730	1900	1720	---	---	---	1540	1660	---	---	---
31	1810	---	1850	1780	---	1810	---	1530	---	1800	---	---

09250507 WILSON CREEK ABOVE TAYLOR CREEK NEAR AXIAL, CO--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	16.0	6.0	8.5	2.0	4.5	1.0	4.5	.5	3.0	.0	6.0	.5
2	14.5	5.5	8.5	3.0	4.5	1.5	4.5	.5	4.0	.0	6.0	.5
3	14.5	4.5	7.5	2.5	6.5	2.5	4.0	.5	4.0	.0	4.5	1.0
4	14.5	4.5	9.0	3.0	5.0	2.5	4.0	1.0	4.0	.0	6.5	1.5
5	15.0	5.0	9.0	2.5	5.0	2.5	3.0	1.0	3.5	.0	7.5	.5
6	15.0	5.0	9.0	2.5	6.5	1.5	4.5	.5	3.5	.0	6.5	1.0
7	14.5	5.0	10.5	5.0	4.5	2.0	4.5	.0	4.0	.0	6.5	1.5
8	14.5	5.0	9.5	4.0	3.5	.0	5.0	.0	2.5	.5	5.5	1.0
9	14.0	4.5	8.5	2.5	4.0	.0	4.5	.0	4.0	.5	7.0	.5
10	13.0	4.5	8.5	2.0	4.0	.0	4.5	.0	2.0	.0	8.0	.5
11	13.0	4.0	9.5	3.0	4.0	.5	4.5	.0	2.5	.0	6.5	.5
12	12.0	5.5	8.5	5.0	4.0	.0	4.5	.0	3.5	.5	6.0	2.0
13	12.0	6.5	6.0	3.0	4.0	.0	3.5	.0	5.0	.0	9.0	1.0
14	11.5	6.0	4.5	1.0	4.0	.5	4.0	.0	4.0	.5	7.0	.5
15	9.0	5.5	5.0	.5	4.0	1.0	3.5	.0	5.0	1.5	7.5	.5
16	7.0	2.5	4.5	.5	4.0	1.0	3.5	.5	5.5	1.0	7.5	1.0
17	8.0	2.0	5.5	.0	4.5	1.0	4.0	.5	5.0	1.0	9.5	.0
18	8.5	4.5	5.0	.0	4.0	1.0	4.0	.0	5.5	1.0	6.5	1.0
19	10.5	3.0	5.0	.0	3.5	.5	4.5	.0	6.5	1.0	6.5	1.0
20	10.5	3.0	5.0	.5	4.5	.5	4.0	.0	3.5	.0	8.0	2.5
21	10.5	3.0	5.0	.0	4.0	1.0	5.5	.0	5.5	.0	5.0	1.5
22	10.5	3.5	4.5	1.0	4.5	2.0	4.0	.0	7.0	.5	9.0	1.0
23	8.0	2.0	4.0	1.0	4.0	1.0	5.0	.0	7.0	.5	9.5	2.0
24	8.0	1.0	4.0	1.5	4.5	1.5	3.5	.5	6.0	2.0	6.5	1.0
25	8.5	1.5	4.0	.5	4.5	2.0	3.5	.0	5.5	1.0	9.0	1.0
26	6.5	2.5	4.0	.0	5.0	1.5	4.5	.0	5.0	1.0	10.0	2.5
27	5.5	1.5	4.5	.0	5.0	1.5	3.5	1.0	6.5	1.5	8.5	3.0
28	6.5	1.5	4.5	1.0	5.0	1.5	5.0	1.0	6.5	1.0	6.0	3.0
29	7.0	1.5	5.0	1.5	4.5	1.0	5.0	1.0	---	---	8.5	1.5
30	7.0	1.5	5.5	2.0	4.5	1.0	3.5	.5	---	---	6.0	1.0
31	8.5	2.0	---	---	4.5	.5	3.0	.5	---	---	7.5	.5
MONTH	16.0	1.0	10.5	.0	6.5	.0	5.5	.0	7.0	.0	10.0	.0

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	11.0	1.5	22.0	6.0	23.5	9.0	18.0	13.0	25.5	12.0	---	---
2	11.0	2.0	17.0	9.0	24.0	8.5	25.5	13.5	26.0	9.5	---	---
3	5.0	2.0	10.5	6.5	17.5	11.5	25.5	12.5	25.0	10.5	---	---
4	6.0	1.0	17.5	4.5	23.5	9.0	26.0	10.5	25.5	11.0	---	---
5	10.0	.5	18.5	4.5	25.0	10.0	27.0	10.0	26.0	8.0	---	---
6	13.5	1.0	14.5	7.0	24.0	9.5	26.5	10.5	25.5	9.0	---	---
7	6.5	4.0	16.5	4.0	23.0	12.0	25.0	11.5	25.0	9.5	---	---
8	11.0	2.5	10.5	4.5	24.5	11.5	27.0	11.5	24.5	8.5	---	---
9	15.0	2.5	17.5	4.5	25.0	11.0	23.0	12.5	24.5	10.5	---	---
10	16.0	3.5	18.5	3.5	25.0	10.0	26.5	12.0	16.5	9.5	---	---
11	13.0	3.5	14.5	5.0	26.0	10.5	25.0	13.0	16.5	10.0	---	---
12	14.0	3.0	14.0	4.0	24.5	10.5	24.5	14.0	21.5	12.0	---	---
13	15.5	5.0	19.0	4.5	23.5	9.5	23.0	14.5	21.0	11.0	---	---
14	15.0	2.0	18.5	4.5	17.0	7.5	27.0	14.5	18.0	11.5	---	---
15	16.5	6.0	15.5	7.0	21.0	5.0	26.5	11.0	18.5	10.0	---	---
16	17.5	4.5	12.5	7.5	22.5	5.5	20.5	11.0	24.0	9.5	---	---
17	15.5	5.5	15.0	7.0	22.0	7.5	20.0	12.5	23.5	9.0	19.5	8.5
18	15.0	5.5	17.0	7.0	21.5	8.0	25.5	11.5	24.5	8.5	19.5	5.5
19	16.5	7.0	21.0	7.0	23.5	8.0	25.5	12.0	22.5	8.5	18.0	6.5
20	15.0	4.0	15.0	8.0	24.0	8.5	25.0	9.0	21.5	9.5	18.5	9.0
21	11.5	3.5	11.0	5.5	24.0	9.0	25.0	9.5	16.5	8.5	18.5	9.5
22	14.5	4.5	11.5	7.0	26.0	8.5	25.5	9.0	23.5	9.5	19.5	9.5
23	18.5	3.0	17.0	8.5	24.0	9.0	24.0	8.5	23.5	9.0	18.0	8.0
24	20.0	4.5	19.5	6.0	26.5	9.5	24.5	10.0	20.5	9.5	17.0	9.5
25	19.5	6.5	18.5	7.5	27.0	9.0	25.5	12.0	23.5	9.0	18.0	8.0
26	19.0	5.5	18.5	9.5	26.0	11.5	19.5	11.0	17.0	3.5	15.5	5.0
27	17.5	5.0	19.0	11.0	24.5	12.5	24.5	8.5	---	---	16.0	4.5
28	20.0	5.5	19.0	10.0	23.5	13.5	25.0	9.0	---	---	17.5	7.5
29	20.5	5.5	22.5	10.5	27.0	11.5	22.5	9.0	---	---	16.5	7.5
30	20.0	6.5	24.0	8.5	26.5	11.0	23.0	10.5	---	---	17.5	6.5
31	---	---	19.0	11.5	---	---	24.0	10.5	---	---	---	---
MONTH	20.5	.5	24.0	3.5	27.0	5.0	27.0	8.5	26.0	3.5	19.5	4.5

09250507 WILSON CREEK ABOVE TAYLOR CREEK NEAR AXIAL, CO--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
		OCTOBER			NOVEMBER			DECEMBER	
1	1.0	100	.27	.40	105	.11	.96	220	.57
2	1.0	50	.14	.40	115	.12	.86	220	.51
3	1.0	50	.14	.40	55	.06	1.1	250	.74
4	1.0	50	.14	.40	35	.04	.76	200	.41
5	1.0	60	.16	.40	30	.03	.78	205	.43
6	.95	45	.12	.50	45	.06	.90	200	.49
7	.95	45	.12	.50	28	.04	.83	215	.48
8	.86	40	.09	.50	25	.03	.86	245	.57
9	.70	60	.11	.50	45	.06	.65	165	.29
10	.70	20	.04	.50	38	.05	.65	150	.26
11	.63	20	.03	.50	35	.05	.68	190	.35
12	.70	20	.04	.50	25	.03	.76	200	.41
13	.76	25	.05	.50	130	.18	.78	210	.44
14	1.0	70	.19	.50	70	.09	.81	150	.33
15	1.2	160	.52	.50	125	.17	.93	160	.40
16	1.0	100	.27	.50	75	.10	.95	200	.51
17	1.1	110	.33	.50	80	.11	.98	230	.61
18	1.1	85	.25	.50	100	.14	1.1	235	.70
19	1.0	65	.18	.60	120	.19	1.1	320	.95
20	.94	55	.14	.60	125	.20	1.1	275	.82
21	.93	50	.13	.60	145	.23	1.1	335	.99
22	.74	55	.11	.60	165	.27	1.2	295	.96
23	.68	65	.12	.60	150	.24	1.2	290	.94
24	.48	95	.12	.60	195	.32	1.1	300	.89
25	.48	100	.13	.60	180	.29	1.3	310	1.1
26	.42	100	.11	.60	155	.25	1.3	290	1.0
27	.41	100	.11	.59	160	.25	1.2	287	.93
28	.47	110	.14	.78	200	.42	1.2	310	1.0
29	.47	135	.17	.88	205	.49	.98	290	.77
30	.47	120	.15	.87	220	.52	1.0	250	.68
31	.40	135	.15	---	---	---	1.0	190	.51
TOTAL	24.54	---	4.77	16.42	---	5.14	30.12	---	20.04
		JANUARY			FEBRUARY			MARCH	
1	1.0	210	.57	1.0	270	.73	.75	700	1.4
2	1.2	260	.84	1.0	350	.95	.95	550	1.4
3	1.2	340	1.1	1.0	320	.86	.97	700	1.8
4	1.2	360	1.2	.82	320	.71	.98	650	1.7
5	1.3	420	1.5	.80	330	.71	1.2	550	1.8
6	1.1	280	.83	.73	320	.63	1.0	750	2.0
7	.73	290	.57	.80	350	.76	.84	800	1.8
8	.83	260	.58	.90	310	.75	.86	750	1.7
9	.86	270	.63	.90	330	.80	.97	1010	3.3
10	.98	320	.85	.90	400	.97	.98	903	2.6
11	1.0	320	.86	.90	365	.89	.90	941	2.7
12	1.0	330	.89	.99	360	.96	1.0	754	2.2
13	1.0	310	.84	1.1	410	1.2	.94	1050	2.6
14	1.0	300	.81	1.1	395	1.2	.86	964	2.4
15	1.1	250	.74	1.1	540	1.6	.78	1060	2.5
16	1.1	255	.76	1.2	520	1.7	.79	1050	2.4
17	1.1	290	.86	1.2	540	1.7	1.1	3240	17
18	1.2	320	1.0	1.1	650	1.9	1.1	1560	4.6
19	1.2	300	.97	1.1	620	1.8	.84	1630	5.0
20	1.0	305	.82	1.1	620	1.8	1.1	2020	5.7
21	1.0	310	.84	.86	620	1.4	1.3	1810	5.7
22	1.0	240	.65	.77	403	.87	1.3	2110	6.9
23	1.0	270	.73	.76	1200	3.5	1.3	1600	5.6
24	1.0	275	.74	.95	1050	2.6	1.1	1850	5.5
25	1.1	280	.83	.71	700	1.3	1.2	2620	8.6
26	1.0	320	.86	.79	650	1.4	1.2	1950	6.3
27	1.1	---	.70	.81	700	1.5	1.2	1950	6.3
28	1.1	340	1.0	.86	600	1.4	1.2	1400	4.5
29	1.1	430	1.3	---	---	---	1.2	1750	5.7
30	1.0	390	1.1	---	---	---	1.4	3600	23
31	.92	270	.67	---	---	---	1.0	2860	11
TOTAL	32.42	---	26.64	26.25	---	36.59	32.31	---	155.7

09250507 WILSON CREEK ABOVE TAYLOR CREEK NEAR AXIAL, CO--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
		APRIL			MAY			JUNE	
1	1.2	2100	6.8	1.1	1910	5.7	1.7	2380	11
2	1.4	2500	9.5	1.3	3500	12	1.5	1900	7.7
3	1.8	2000	9.7	2.3	8790	58	1.4	3090	12
4	1.1	1850	5.1	2.6	8760	56	1.6	3070	13
5	1.1	2470	9.2	1.7	3640	16	1.4	2090	7.9
6	1.4	3000	11	1.7	5770	28	1.4	1600	6.0
7	.86	1950	4.5	1.7	4840	22	1.3	1380	4.8
8	.90	1900	4.6	1.5	3200	13	1.3	1270	4.5
9	.90	1800	4.4	1.4	2800	11	1.0	1160	3.1
10	.91	1350	3.3	1.2	2500	8.1	1.1	1250	3.7
11	1.5	4390	15	1.3	2300	8.1	1.1	981	2.9
12	1.5	4000	16	1.4	2200	8.3	1.1	1400	4.2
13	1.5	4980	19	1.4	1900	7.2	.99	600	1.6
14	1.5	4730	16	1.4	1700	6.4	1.0	614	1.7
15	1.7	5640	23	1.4	1900	7.2	1.0	617	1.7
16	1.9	6700	32	1.4	2650	10	1.0	499	1.3
17	1.9	8090	42	1.6	3100	13	1.0	432	1.2
18	1.9	7020	34	1.6	2700	12	.95	444	1.1
19	1.5	5580	23	1.5	2200	8.9	.95	288	.74
20	1.6	5390	25	1.3	2100	7.4	.81	238	.52
21	1.5	4450	18	1.4	2600	9.8	.71	192	.37
22	1.5	3300	13	1.9	2600	13	.64	339	.59
23	1.4	2700	10	1.8	3800	18	.72	230	.45
24	1.3	3500	12	1.7	2400	11	.74	196	.39
25	1.4	2800	11	1.7	2800	13	.77	220	.46
26	1.3	1800	6.3	1.8	2200	11	.93	258	.65
27	1.2	2000	6.5	1.9	2900	15	1.0	405	1.1
28	1.2	1800	5.8	1.8	2600	13	1.3	650	2.3
29	1.1	1800	5.3	1.7	2150	9.9	1.2	497	1.6
30	1.0	2000	5.4	1.6	1840	7.9	1.1	317	.94
31	---	---	---	1.6	2090	9.0	---	---	---
TOTAL	40.97	---	406.4	49.7	---	448.9	32.71	---	99.51
		JULY			AUGUST			SEPTEMBER	
1	1.0	392	1.1	.42	58	.07	.41	65	.07
2	1.2	2780	12	.41	76	.08	.44	45	.05
3	1.2	505	1.6	.43	63	.07	.48	86	.11
4	1.1	361	1.1	.41	34	.04	.42	48	.05
5	1.1	900	2.7	.37	17	.02	.38	115	.12
6	.95	302	.77	.43	14	.02	.50	91	.12
7	.81	359	.79	.40	21	.02	.49	65	.09
8	.70	299	.57	.40	13	.01	.50	44	.06
9	.71	416	.80	.37	13	.01	.47	32	.04
10	.64	352	.61	.37	45	.04	.49	52	.07
11	.64	240	.41	.39	73	.08	.43	51	.06
12	.71	480	.92	.40	108	.12	.38	45	.05
13	.78	400	.84	.47	115	.15	.41	35	.04
14	.75	352	.71	.44	91	.11	.40	13	.01
15	.71	225	.43	.43	---	.10	.42	17	.02
16	.59	213	.34	.91	---	.34	.40	20	.02
17	.62	234	.39	.60	119	.19	.46	11	.01
18	.63	198	.34	.60	77	.12	.37	17	.02
19	.59	175	.28	.43	91	.11	.40	25	.03
20	.55	168	.25	.40	41	.04	.33	22	.02
21	.41	145	.16	.36	55	.05	.31	29	.02
22	.36	57	.06	.35	107	.10	.32	50	.04
23	.24	32	.02	.32	73	.06	.36	30	.03
24	.24	79	.05	.38	69	.07	.33	34	.03
25	.58	179	.28	.35	61	.06	.28	25	.02
26	.43	126	.15	.33	54	.05	.26	---	.02
27	.86	64	.15	.33	38	.03	.29	36	.03
28	.38	35	.04	.38	57	.06	.28	52	.04
29	.42	57	.06	.36	70	.07	.34	27	.02
30	.41	19	.02	.43	53	.06	.30	33	.03
31	.37	70	.07	.40	75	.08	---	---	---
TOTAL	20.68	---	28.01	13.07	---	2.43	11.65	---	1.34

09250510 TAYLOR CREEK AT MOUTH, NEAR AXIAL, CO

LOCATION.--Lat 40°18'48", long 107°47'57", in NW¼SW¼ sec.14, T.4 N., R.93 W., Moffatt County, Hydrologic Unit 14050002, on right bank 475 ft (145 m) upstream from confluence with Wilson Creek, about 1,000 ft (300 m) southwest of Gossard ranch house, and 2 mi (3.2 km) north of Axial. Prior to Mar. 29, 1980, at site 25 ft (8 m) upstream.

DRAINAGE AREA.--7.22 mi² (18.70 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1975 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 6,300 ft (1,920 m), from topographic map. Prior to Mar. 28, 1980, gage 25 ft (8 m) upstream at datum 0.08 ft (0.024 m) higher.

REMARKS.--Records good except those for winter period, which are poor. No diversions. Low dam to prevent erosion 75 ft (23 m) upstream.

AVERAGE DISCHARGE.--6 years, 0.13 ft³/s (0.004 m³/s), 94 acre-ft/yr (0.12 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge observed, 18 ft³/s (0.51 m³/s) Feb. 19, 1981, gage height, 2.69 ft (0.820 m) result of discharge measurement; no flow many days each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1.6 ft³/s (0.045 m³/s) at 1630 May 3, gage height, 0.63 ft (0.192 m); no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.23	.13	.20	.00	.01	.02	.10	.01	.01	.00	.00	.00
2	.03	.14	.20	.00	.01	.01	.04	.03	.03	.04	.00	.00
3	.09	.14	.20	.00	.01	.00	.05	.40	.07	.00	.00	.00
4	.29	.12	.20	.00	.00	.00	.01	.18	.06	.00	.00	.00
5	.05	.12	.20	.00	.00	.00	.02	.03	.04	.00	.00	.02
6	.07	.14	.25	.00	.00	.00	.02	.04	.03	.00	.00	.00
7	.08	.14	.25	.00	.00	.00	.02	.04	.04	.00	.00	.00
8	.07	.14	.25	.00	.00	.00	.02	.03	.04	.00	.00	.00
9	.09	.14	.25	.00	.00	.00	.02	.02	.02	.00	.00	.00
10	.08	.14	.25	.00	.00	.00	.02	.02	.02	.00	.00	.00
11	.10	.12	.30	.00	.00	.00	.01	.06	.02	.00	.00	.00
12	.10	.14	.30	.00	.00	.00	.01	.03	.04	.05	.00	.00
13	.13	.18	.30	.00	.00	.00	.02	.03	.02	.02	.00	.00
14	.17	.13	.30	.00	.00	.00	.01	.02	.01	.00	.00	.00
15	.39	.13	.30	.00	.00	.00	.02	.02	.01	.00	.00	.00
16	.46	.13	.35	.00	.00	.00	.02	.08	.01	.00	.00	.00
17	.30	.13	.35	.00	.00	.00	.02	.17	.00	.00	.00	.00
18	.16	.13	.35	.00	.01	.00	.02	.07	.00	.00	.00	.00
19	.12	.13	.35	.00	.01	.00	.01	.04	.00	.00	.00	.00
20	.12	.13	.35	.00	.02	.00	.02	.04	.00	.00	.00	.00
21	.11	.13	.40	.00	.02	.01	.03	.13	.00	.00	.00	.00
22	.15	.13	.40	.00	.02	.01	.03	.07	.00	.00	.00	.00
23	.15	.14	.40	.00	.01	.00	.02	.07	.00	.00	.00	.00
24	.10	.14	.30	.00	.01	.01	.03	.05	.00	.00	.00	.00
25	.14	.14	.20	.00	.00	.01	.03	.04	.00	.03	.00	.00
26	.11	.14	.10	.00	.00	.02	.01	.04	.00	.08	.00	.00
27	.17	.15	.05	.00	.00	.02	.01	.04	.02	.02	.00	.00
28	.13	.15	.00	.00	.00	.05	.01	.03	.02	.00	.00	.00
29	.14	.17	.00	.03	---	.05	.01	.02	.00	.00	.00	.00
30	.18	.20	.00	.02	---	.05	.01	.01	.00	.00	.00	.00
31	.13	---	.00	.01	---	.15	---	.02	---	.00	.00	---
TOTAL	4.64	4.19	7.35	.06	.13	.41	.67	1.88	.51	.24	.00	.02
MEAN	.15	.14	.24	.002	.005	.013	.022	.061	.017	.008	.000	.001
MAX	.46	.20	.40	.03	.02	.15	.10	.40	.07	.08	.00	.02
MIN	.03	.12	.00	.00	.00	.00	.01	.01	.00	.00	.00	.00
AC-FT	9.2	8.3	15	.1	.3	.8	1.3	3.7	1.0	.5	.00	.04

CAL YR 1980 TOTAL 235.24 MEAN .64 MAX 18 MIN .00 AC-FT 467
WTR YR 1981 TOTAL 20.10 MEAN .055 MAX .46 MIN .00 AC-FT 40

NOTE.--NO GAGE-HEIGHT RECORD NOV. 15 TO MAR. 18.

09250510 TAYLOR CREEK AT MOUTH, NEAR AXIAL, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--July 1975 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: July 1976 to September 1981 (discontinued).
WATER TEMPERATURES: July 1976 to September 1981 (discontinued).

INSTRUMENTATION.--Water-quality monitor July 1976 to September 1981.

REMARKS.--Daily maximum and minimum specific-conductance data available in district office.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 2,220 micromhos Oct. 25, 1978; minimum, 371 micromhos Apr. 10, 1977.
WATER TEMPERATURES: Maximum, 32.0°C July 11, 1976; minimum, freezing point many days during winter months each year.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 1,900 micromhos Feb. 2; minimum, 580 micromhos Sept. 5.
WATER TEMPERATURES: Maximum, 27.5°C May 11; minimum, 0.0°C several days in December to April.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	SPECIFIC CONDUCTANCE LAB (UMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	OXYGEN, DISSOLVED (MG/L)	HARDNESS (MG/L AS CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)
OCT										
29...	1415	.17	1340	1330	8.2	4.0	10.4	670	86	110
NOV										
26...	1510	.14	1400	1440	8.0	.5	9.8	640	91	100
DEC										
23...	1340	.40	1410	1410	8.0	.0	12.0	640	99	96
FEB										
24...	1430	.03	730	751	8.3	.0	10.7	330	53	49
APR										
01...	1545	.08	1080	995	8.6	10.5	8.5	500	79	73
28...	1535	.02	1350	1340	8.4	22.5	6.4	560	60	100
MAY										
29...	1005	.04	1300	1310	8.3	15.5	7.2	580	69	100
JUN										
12...	1340	.12	1680	1680	8.0	25.5	--	760	140	100
JUL										
02...	1900	.51	500	--	--	19.0	--	--	--	--
26...	1835	.14	1360	--	--	17.0	--	--	--	--

DATE	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	ALKALINITY LAB (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)
OCT									
29...	81	1.4	8.4	310	460	33	.8	13	979
NOV									
26...	73	1.3	7.5	400	340	31	.4	13	899
DEC									
23...	68	1.2	10	390	360	31	.4	13	914
FEB									
24...	38	.9	5.4	200	220	17	.3	8.7	512
APR									
01...	66	1.3	7.4	290	260	40	.4	8.8	710
28...	79	1.5	11	320	400	34	.5	9.9	887
MAY									
29...	72	1.3	9.2	360	360	31	.4	8.2	867
JUN									
12...	110	1.7	11	280	660	58	1.0	15	1270
JUL									
02...	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--

09250510 TAYLOR CREEK AT MOUTH, NEAR AXIAL, CO--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	BORON, DIS-SOLVED (UG/L AS B)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)
OCT									
29...	1.3	.45	.13	.000	130	1100	10	110	60
NOV									
26...	1.2	.34	.44	.000	110	400	30	130	100
DEC									
23...	1.2	.99	.37	.050	90	1100	70	160	110
FEH									
24...	.70	.04	.03	.010	30	490	40	90	80
APR									
01...	.97	.15	.24	.000	250	7300	70	270	30
28...	1.2	.05	.06	.100	130	470	20	30	5
MAY									
29...	1.2	.09	.06	.100	100	250	20	20	9
JUN									
12...	1.7	.41	1.3	.000	290	290000	50	11000	60
JUL									
02...	--	--	--	--	--	180000	--	4500	--
26...	--	--	--	--	--	63000	--	1700	--

DATE	TIME	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL)	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS-SOLVED (UG/L AS AS)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR)
DEC								
23...	1340	180	20	--	--	--	--	--
APR								
01...	1545	740	--	0	--	1	--	13
28...	1535	340	10	1	1	0	<1	--
JUN								
12...	1340	270000	--	70	--	20	--	32
JUL								
02...	1900	120000	--	--	--	3	--	22
26...	1835	51000	--	--	--	0	--	42

DATE	COBALT, TOTAL RECOV-ERABLE (UG/L AS CO)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU)	COPPER, DIS-SOLVED (UG/L AS CU)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB)	LEAD, DIS-SOLVED (UG/L AS PB)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG)	MERCURY DIS-SOLVED (UG/L AS HG)	MOLYB-DENUM, TOTAL RECOV-ERABLE (UG/L AS MO)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)
DEC									
23...	--	--	--	3	2	--	--	--	--
APR									
01...	0	14	--	5	--	.1	--	2	--
28...	--	6	2	0	3	.3	.0	84	<10
JUN									
12...	140	350	--	120	--	3.1	--	2600	--
JUL									
02...	77	240	--	300	--	--	--	0	--
26...	25	160	--	65	--	--	--	7	--

DATE	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI)	NICKEL, DIS-SOLVED (UG/L AS NI)	SELE-NIUM, TOTAL (UG/L AS SE)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN)	ZINC, DIS-SOLVED (UG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C)
DEC								
23...	--	--	--	--	20	6	29	29
APR								
01...	7	--	3	--	60	--	--	--
28...	4	0	1	1	20	8	15	14
JUN								
12...	320	--	0	--	2000	--	--	--
JUL								
02...	180	--	--	--	1100	--	--	--
26...	57	--	--	--	410	--	--	--

09250510 TAYLOR CREEK AT MOUTH, NEAR AXIAL, CO--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. SIEVE DIAM, % FINER THAN .062 MM
OCT					
29...	1415	.17	166	.08	--
NOV					
26...	1510	.14	66	.02	--
DEC					
23...	1340	.40	132	.14	--
FEB					
24...	1430	.03	38	.00	--
APR					
01...	1545	.08	541	.12	--
28...	1535	.02	34	.00	--
MAY					
29...	1005	.04	21	.00	--
JUN					
12...	1340	.12	25050	8.1	99
JUL					
26...	1835	.14	3685	1.4	95

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1390	1290	1260	---	1810	---	1250	1350	1320	---		---
2	1360	1290	1270	---	1880	---	1320	1320	1330	700		---
3	1410	1300	1220	---	1870	---	1350	---	1240	---		---
4	1380	1290	1240	---	---	---	1360	---	1250	---		---
5	1390	1300	1230	---	---	---	1280	1400	1260	---		600
6	1410	1290	1240	---	---	---	1330	1290	1280	---		---
7	1420	1290	1240	---	---	---	1350	1220	1290	---		---
8	1400	1290	1270	---	---	---	1350	1260	1320	---		---
9	1400	1290	1370	---	---	---	1340	1260	1320	---		---
10	1390	1300	1450	---	---	---	1350	1270	1320	---		---
11	1400	1290	1470	---	---	---	1350	1130	1340	---		---
12	1390	1290	1480	---	---	---	1360	---	1390	1040		---
13	1380	1250	1530	---	---	---	1340	---	1380	660		---
14	1330	1280	1540	---	---	---	1330	---	1390	---		---
15	1260	1380	1510	---	---	---	1300	---	1390	---		---
16	1310	1410	1460	---	---	---	1310	---	1410	---		---
17	1410	1450	1440	---	---	---	1290	---	---	---		---
18	1340	1460	1400	---	---	---	1290	---	---	---		---
19	1350	1440	1400	---	---	---	1290	---	---	---		---
20	1350	1420	1440	---	1130	---	1310	---	---	---		---
21	1340	1430	1470	---	1120	---	1280	---	---	---		---
22	1340	1390	1350	---	1140	---	1270	---	---	---		---
23	1320	1340	1270	---	1170	---	1260	---	---	---		---
24	1340	1340	1480	---	1180	---	1250	---	---	---		---
25	1350	1310	1390	---	---	---	1240	---	---	730		---
26	1320	1330	---	---	---	---	1250	---	---	779		---
27	1280	1360	1480	---	---	1160	1250	---	790	820		---
28	1300	1340	---	---	---	1170	1340	---	920	---		---
29	1310	1280	---	1130	---	1070	1360	1300	---	---		---
30	1290	1250	---	1510	---	1050	1350	1320	---	---		---
31	1280	---	---	1590	---	1120	---	1300	---	---		---

09250510 TAYLOR CREEK AT MOUTH, NEAR AXIAL, CO--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	17.0	5.0	7.5	1.0	.5	.5	---	---	.0	.0	---	---
2	15.5	5.0	8.0	1.0	.5	.5	---	---	.0	.0	---	---
3	17.0	2.0	6.5	1.0	1.0	.5	---	---	.0	.0	---	---
4	15.5	5.0	8.0	1.0	1.5	.5	---	---	---	---	---	---
5	16.5	3.5	8.5	1.0	1.5	.5	---	---	---	---	---	---
6	16.5	3.5	8.5	.5	1.0	.5	---	---	---	---	---	---
7	17.0	4.0	10.5	3.0	.0	.0	---	---	---	---	---	---
8	16.5	4.0	10.0	3.0	.0	.0	---	---	---	---	---	---
9	15.5	3.0	8.5	.5	.0	.0	---	---	---	---	---	---
10	14.0	3.0	8.5	.5	.0	.0	---	---	---	---	---	---
11	14.5	2.0	9.5	1.0	.0	.0	---	---	---	---	---	---
12	13.0	4.5	8.5	4.0	.0	.0	---	---	---	---	---	---
13	12.0	7.5	5.0	1.5	.0	.0	---	---	---	---	---	---
14	12.5	6.0	3.0	.5	.0	.0	---	---	---	---	---	---
15	10.5	5.5	.5	.5	.0	.0	---	---	---	---	---	---
16	7.0	2.5	.5	.5	.0	.0	---	---	---	---	---	---
17	8.0	2.0	.5	.5	.0	.0	---	---	---	---	---	---
18	8.5	4.5	.5	.5	.0	.0	---	---	.0	.0	---	---
19	11.0	2.0	.5	.5	.0	.0	---	---	.0	.0	---	---
20	11.0	2.0	.5	.5	.0	.0	---	---	.0	.0	---	---
21	11.0	1.5	.5	.5	.0	.0	---	---	.0	.0	1.5	.0
22	11.0	3.0	.5	.5	.0	.0	---	---	.0	.0	2.0	.0
23	7.5	1.0	.5	.5	.0	.0	---	---	.0	.0	---	---
24	6.5	1.0	.5	.5	.0	.0	---	---	.0	.0	2.5	.0
25	6.5	1.0	.5	.5	.0	.0	---	---	---	---	2.5	.0
26	5.5	1.0	.5	.5	.0	.0	---	---	---	---	7.5	.0
27	4.0	1.0	.5	.5	.0	.0	---	---	---	---	8.0	.0
28	5.0	1.0	.5	.5	---	---	---	---	---	---	4.0	.0
29	4.0	1.0	.5	.5	---	---	.0	.0	---	---	8.5	.0
30	6.0	1.0	.5	.5	---	---	.0	.0	---	---	1.0	.0
31	8.0	1.0	---	---	---	---	.0	.0	---	---	4.5	.0
MONTH	17.0	1.0	10.5	.5	1.5	.0	.0	.0	.0	.0	8.5	.0

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	11.5	.0	25.5	5.0	25.0	9.5	---	---			---	---
2	11.0	.5	19.5	10.0	25.0	9.0	19.5	19.5			---	---
3	4.0	.5	---	---	19.0	12.5	---	---			---	---
4	4.0	.0	---	---	25.0	9.5	---	---			---	---
5	10.0	.0	21.0	6.5	26.5	10.5	---	---			14.0	13.0
6	14.0	.0	17.5	7.5	25.5	10.0	---	---			---	---
7	5.5	2.0	20.0	4.5	25.0	13.0	---	---			---	---
8	11.0	1.0	12.5	5.0	26.5	13.5	---	---			---	---
9	16.0	.5	26.5	5.0	26.5	12.5	---	---			---	---
10	17.0	2.0	26.5	3.5	26.5	11.0	---	---			---	---
11	16.0	1.5	27.5	5.0	27.5	11.0	---	---			---	---
12	16.0	1.5	26.5	4.0	26.5	12.0	20.5	14.5			---	---
13	18.5	4.0	23.5	4.5	23.5	10.0	18.0	18.0			---	---
14	16.5	2.5	17.5	4.5	17.5	7.0	---	---			---	---
15	18.0	5.5	22.0	7.5	22.0	4.5	---	---			---	---
16	20.0	3.5	23.5	8.5	23.5	4.5	---	---			---	---
17	18.0	4.5	16.0	8.0	---	---	---	---			---	---
18	17.5	4.0	20.0	8.0	---	---	---	---			---	---
19	20.0	6.0	21.0	8.5	---	---	---	---			---	---
20	17.0	3.0	15.5	10.0	---	---	---	---			---	---
21	14.5	3.0	11.5	7.5	---	---	---	---			---	---
22	16.5	4.0	12.0	8.0	---	---	---	---			---	---
23	21.0	2.0	17.5	9.0	---	---	---	---			---	---
24	22.5	4.0	19.0	7.0	---	---	---	---			---	---
25	21.5	6.0	18.5	8.5	---	---	25.0	17.5			---	---
26	20.5	5.0	18.5	10.0	---	---	19.5	14.0			---	---
27	19.5	4.5	19.5	12.0	17.0	15.5	24.0	11.0			---	---
28	22.5	9.0	20.0	10.5	19.5	19.0	---	---			---	---
29	23.5	4.5	24.0	11.5	---	---	---	---			---	---
30	23.0	5.5	24.5	9.0	---	---	---	---			---	---
31	---	---	20.0	12.5	---	---	---	---			---	---
MONTH	23.5	.0	27.5	3.5	27.5	4.5	25.0	11.0			14.0	13.0

09250610 JUBB CREEK NEAR AXIAL, CO

LOCATION.--Lat 40°18'45", long 107°49'18", in SE¼SE¼ sec.16, T.4 N., R.93 W., Moffatt County, Hydrologic Unit 14050002, on right bank about 500 ft (152 m) upstream from unnamed tributary and 2.4 mi (3.9 km) northwest of Axial.

DRAINAGE AREA.--7.53 mi^2 (19.50 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1975 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 6,400 ft (1,951 m), from topographic map.

REMARKS.--Records good except those for period of no gage-height record, which are poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge observed, 5.6 ft^3/s (0.16 m^3/s), Feb. 19, 1980, result of discharge measurement; maximum gage height, 3.62 ft (1.10 m) Feb. 18, 1980 (backwater from ice); no flow many days each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge observed, 0.66 ft^3/s (0.019 m^3/s) at 1300 Dec. 23 from discharge measurement made during period of ice affect; no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.18	.22	.07	.10	.00	.10	.29	.08	.18	.16	.05	.09
2	.18	.22	.08	.05	.00	.08	.30	.15	.16	.22	.05	.08
3	.18	.22	.09	.03	.00	.08	.25	.41	.21	.20	.04	.09
4	.18	.20	.09	.01	.00	.06	.25	.29	.23	.18	.04	.08
5	.19	.22	.10	.01	.00	.06	.20	.20	.17	.16	.03	.10
6	.19	.22	.10	.01	.00	.06	.20	.24	.17	.14	.03	.11
7	.15	.20	.10	.01	.00	.05	.20	.23	.18	.11	.04	.10
8	.15	.18	.10	.01	.00	.05	.20	.21	.16	.11	.04	.10
9	.15	.22	.10	.01	.00	.05	.20	.20	.15	.10	.05	.10
10	.15	.24	.10	.00	.00	.05	.10	.18	.17	.10	.06	.11
11	.15	.18	.10	.00	.00	.08	.10	.23	.19	.08	.06	.11
12	.20	.20	.10	.00	.00	.08	.10	.20	.11	.11	.06	.11
13	.20	.20	.10	.00	.00	.08	.10	.18	.13	.10	.06	.11
14	.20	.20	.10	.00	.00	.08	.10	.18	.16	.07	.07	.11
15	.25	.15	.10	.00	.01	.10	.07	.19	.17	.05	.08	.11
16	.26	.15	.10	.00	.01	.10	.13	.25	.16	.04	.09	.12
17	.26	.10	.10	.00	.01	.10	.09	.28	.14	.06	.07	.11
18	.20	.10	.10	.00	.01	.14	.10	.22	.15	.06	.06	.11
19	.20	.10	.10	.00	.01	.15	.07	.19	.13	.05	.06	.11
20	.20	.05	.10	.00	.01	.15	.04	.20	.12	.03	.06	.11
21	.20	.05	.10	.00	.01	.15	.13	.25	.11	.03	.07	.11
22	.20	.03	.40	.00	.05	.15	.19	.24	.10	.02	.06	.11
23	.20	.02	.66	.00	.10	.15	.09	.22	.11	.03	.06	.11
24	.20	.01	.50	.00	.14	.20	.09	.20	.10	.04	.06	.11
25	.20	.01	.40	.00	.10	.20	.08	.19	.09	.07	.07	.12
26	.20	.01	.30	.00	.10	.20	.07	.19	.09	.08	.06	.11
27	.20	.01	.20	.00	.10	.20	.05	.17	.11	.09	.07	.11
28	.20	.02	.10	.00	.10	.20	.04	.19	.18	.07	.06	.11
29	.22	.04	.10	.00	---	.25	.05	.18	.15	.05	.07	.11
30	.24	.06	.10	.00	---	.25	.06	.16	.13	.05	.08	.12
31	.24	---	.10	.00	---	.25	---	.19	---	.06	.09	---
TOTAL	6.12	3.83	4.89	.24	.76	3.90	3.94	6.49	4.41	2.72	1.85	3.19
MEAN	.20	.13	.16	.008	.027	.13	.13	.21	.15	.088	.060	.11
MAX	.26	.24	.66	.10	.14	.25	.30	.41	.23	.22	.09	.12
MIN	.15	.01	.07	.00	.00	.05	.04	.08	.09	.02	.03	.08
AC-FT	12	7.6	9.7	.5	1.5	7.7	7.8	13	8.7	5.4	3.7	6.3

CAL YR 1980	TOTAL 159.74	MEAN .44	MAX 5.5	MIN .00	AC-FT 317
WTR YR 1981	TOTAL 42.34	MEAN .12	MAX .66	MIN .00	AC-FT 84

NOTE.--NO GAGE-HEIGHT RECORD NOV. 13 TO APR. 14.

09250610 JUBB CREEK NEAR AXIAL, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--July 1975 to September 1981 (discontinued).

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: July 1976 to current year.
WATER TEMPERATURES: July 1976 to current year.

INSTRUMENTATION.--Water-quality monitor July 1976 to September 1981.

REMARKS.--Daily maximum and minimum specific-conductance data available in in district office.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 2,780 micromhos Dec. 8, 1977; minimum, 819 micromhos Oct. 7, 1977.
WATER TEMPERATURES: Maximum, 32.0°C June 25, 1981; minimum, 0.0°C several days during winter period when flowing.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 2,310 micromhos Dec. 18; minimum, 1,040 micromhos Apr. 2.
WATER TEMPERATURES: Maximum, 32.0°C June 25; minimum, 0.0°C many days during December to April.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	SPECIFIC CONDUCTANCE LAB (UMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	OXYGEN, DISSOLVED (MG/L)	HARDNESS (MG/L AS CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)
OCT										
29...	1235	.19	1700	1700	8.0	1.0	12.4	870	100	150
NOV										
26...	1355	.01	2200	2200	7.8	.0	10.0	1100	150	180
DEC										
23...	1255	.66	1540	1540	7.8	.0	11.1	810	110	130
FEB										
24...	1245	.14	1490	1490	8.2	.0	11.2	740	100	120
APR										
01...	1425	.29	1440	1450	8.3	.0	11.6	680	89	110
28...	1500	.04	1700	1720	8.3	23.0	8.4	800	89	140
MAY										
29...	0930	.19	1700	1600	8.2	13.0	6.5	810	94	140
JUN										
25...	1030	.14	1740	1730	8.3	17.0	--	830	87	150
JUL										
15...	1015	.05	1740	1750	8.4	16.5	9.2	870	85	160
AUG										
07...	1320	.06	1710	1730	8.6	26.0	8.4	820	65	160
SEP										
17...	1120	.11	1770	1920	8.5	9.5	11.4	850	78	160

DATE	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	ALKALINITY LAB (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)
OCT									
29...	87	1.3	10	470	530	40	.4	14	1210
NOV									
26...	120	1.6	12	640	600	45	.4	18	1510
DEC									
23...	73	1.1	8.7	450	460	30	.3	15	1100
FEB									
24...	78	1.2	5.1	340	490	31	.3	11	1040
APR									
01...	72	1.2	4.8	390	400	27	.3	9.4	947
28...	97	1.5	6.9	440	540	35	.4	9.8	1180
MAY									
29...	88	1.3	4.6	470	510	34	.3	12	1170
JUN									
25...	97	1.5	6.4	400	580	40	.3	14	1220
JUL									
15...	110	1.6	5.7	470	580	42	.3	16	1280
AUG									
07...	120	2.2	6.4	440	580	39	.3	13	1250
SEP									
17...	120	2.1	5.1	440	630	39	.3	13	1310

09250610 JUBB CREEK NEAR AXIAL, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	BORON, DIS-SOLVED (UG/L AS B)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)
OCT									
29...	1.7	.62	.09	.000	120	90	<10	20	2
NOV									
26...	2.1	.04	.04	.040	160	210	50	20	20
DEC									
23...	1.5	2.0	.00	.030	100	60	20	20	10
FEB									
24...	1.4	.39	.03	.000	70	110	20	10	10
APR									
01...	1.3	.74	.00	.000	90	240	10	40	30
28...	1.6	.13	.06	.030	160	110	<10	10	4
MAY									
29...	1.6	.60	.05	.150	110	50	10	10	6
JUN									
25...	1.7	.46	.02	.020	120	160	<10	10	5
JUL									
15...	1.7	.17	.03	.040	130	90	20	10	3
AUG									
07...	1.7	.20	.00	.000	150	40	<10	10	3
SEP									
17...	1.8	.39	.01	.000	130	40	<10	10	2

DATE	TIME	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL)	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS-SOLVED (UG/L AS AS)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD)	CADMIUM DIS-SOLVED (UG/L AS CD)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU)	COPPER, DIS-SOLVED (UG/L AS CU)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB)	LEAD, DIS-SOLVED (UG/L AS PB)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG)
DEC												
23...	1255	20	20	--	--	--	--	--	--	2	2	--
APR												
28...	1500	70	8	1	2	0	<1	4	5	0	2	.0
JUL												
15...	1015	80	20	--	--	--	--	--	--	0	1	--

DATE	MERCURY DIS-SOLVED (UG/L AS HG)	MOLYB-DENUM, TOTAL RECOV-ERABLE (UG/L AS MO)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI)	NICKEL, DIS-SOLVED (UG/L AS NI)	SELE-NIUM, TOTAL (UG/L AS SE)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN)	ZINC, DIS-SOLVED (UG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C)
DEC											
23...	--	--	--	--	--	--	--	20	3	23	12
APR											
28...	.0	70	<10	4	7	1	1	10	10	18	11
JUL											
15...	--	--	--	--	--	--	--	10	10	8.8	9.1

09250610 JUBB CREEK NEAR AXIAL, CO--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)
OCT				
29...	1235	.19	24	.01
29...	1320	.43	24	.03
NOV				
08...	1155	.01	0	.00
26...	1355	.01	53	.00
DEC				
23...	1255	.66	9	.02
FEB				
19...	1720	.01	314	.01
21...	1245	.01	13	.00
24...	1245	.14	13	.00
MAR				
19...	1015	.15	24	.01
APR				
01...	1425	.29	44	.03
14...	1105	.10	6	.00
28...	1500	.04	28	.00
MAY				
19...	1430	.19	10	.01
29...	0930	.19	22	.01
JUN				
25...	1030	.14	61	.02
25...	1400	.14	76	.03
JUL				
15...	1015	.05	18	.00
30...	0935	.05	44	.01
AUG				
07...	1320	.06	12	.00
26...	1325	.06	24	.00
SEP				
17...	1120	.11	14	.00

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1620		---	1820	---	1450	1340	1720	1700	1690	1800	1830
2	1620		---	1840	---	1510	1190	1730	1700	1640	1790	1790
3	1620		---	1830	---	1560	1300	1600	1640	1650	1800	1850
4	1620		1460	1730	---	1610	1440	1550	1630	1670	1820	1830
5	1620		1500	1530	---	1580	1430	1640	1680	1670	1830	1790
6	1620		1540	1710	---	1550	1290	1590	1690	1680	1820	1850
7	1620		1590	1740	---	1550	1320	1610	1680	1680	1820	1830
8	1620		1620	1790	---	1560	1340	1650	1690	1680	1810	1840
9	1620		1730	1960	---	1520	1300	1640	1700	1660	1800	1820
10	1630		1820	---	---	1460	1300	1660	1680	1670	1790	1810
11	1630		1880	---	---	1460	1390	1620	1680	1670	1800	1830
12	1630		1910	---	---	1460	1420	1660	1700	1640	1810	1840
13	1650		1990	---	---	1390	1450	1660	1690	1620	1810	1820
14	1600		---	---	---	1310	1520	1680	1690	1680	1800	1830
15	1480		---	---	1750	1310	1530	1670	1680	1700	1800	1820
16	1590		---	---	1680	1270	1540	1640	1670	1720	1840	1820
17	1580		---	---	1690	1290	1590	1580	1700	1710	1810	1820
18	---		2070	---	1610	1420	1610	1640	1690	1740	1800	1820
19	---		1800	---	1570	1440	1620	1680	1700	1750	1800	1810
20	---		1780	---	1400	1290	1640	1670	1700	1770	1790	1810
21	---		1760	---	1430	1280	1610	1650	1700	1800	1780	1820
22	---		1600	---	1440	1310	1650	1650	1730	1810	1780	1820
23	---		1520	---	1460	1230	1630	1660	1740	1810	1780	1810
24	---		1610	---	1430	1220	1650	1670	1740	1790	1800	1780
25	---		1560	---	1320	1290	1650	1690	1720	1820	1790	1780
26	---		1500	---	1370	1230	1670	1680	1710	1770	1800	1800
27	---		1510	---	1420	1220	1680	1710	1690	1820	1810	1800
28	---		1520	---	1420	1390	1680	1720	1750	1820	1800	1800
29	---		1610	---	---	1420	1680	1710	1700	1800	1800	1800
30	---		1740	---	---	1360	1720	1720	1690	1790	1800	1810
31	---		1790	---	---	1420	---	1710	---	1800	1800	---
MEAN	1610		1680	1770	1500	1400	1510	1660	1700	1730	1800	1820

WTR YR 1981 MEAN 1650 MAX 2070 MIN 1190

09250610 JUBB CREEK NEAR AXIAL, CO--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	14.0	4.0			---	---	.0	.0	---	---	.0	.0
2	12.5	4.5			---	---	.0	.0	---	---	.0	.0
3	12.0	3.0			---	---	.0	.0	---	---	.0	.0
4	12.0	3.0			.5	.5	.0	.0	---	---	.0	.0
5	12.0	3.5			.5	.5	.0	.0	---	---	.0	.0
6	12.0	3.5			.5	.5	.0	.0	---	---	.0	.0
7	12.0	3.5			.5	.5	.0	.0	---	---	.0	.0
8	11.5	1.5			.5	.0	.0	.0	---	---	.0	.0
9	11.0	3.0			.5	.0	.0	.0	---	---	.0	.0
10	10.0	2.5			.5	.0	---	---	---	---	.0	.0
11	9.5	1.5			.5	.0	---	---	---	---	.0	.0
12	10.5	4.5			.0	.0	---	---	---	---	.0	.0
13	10.5	6.5			.5	.0	---	---	---	---	.0	.0
14	10.5	5.5			.0	.0	---	---	---	---	.0	.0
15	8.0	4.5			.0	.0	---	---	.0	.0	.0	.0
16	4.5	1.0			.0	.0	---	---	.0	.0	.0	.0
17	5.0	1.5			.0	.0	---	---	.0	.0	.0	.0
18	---	---			.0	.0	---	---	.0	.0	.0	.0
19	---	---			.0	.0	---	---	.0	.0	.0	.0
20	---	---			.0	.0	---	---	.0	.0	.0	.0
21	---	---			.0	.0	---	---	.0	.0	.0	.0
22	---	---			.0	.0	---	---	.0	.0	.0	.0
23	---	---			.0	.0	---	---	.0	.0	.0	.0
24	---	---			.0	.0	---	---	.0	.0	.0	.0
25	---	---			.0	.0	---	---	.0	.0	.0	.0
26	---	---			.0	.0	---	---	.0	.0	.0	.0
27	---	---			.0	.0	---	---	.0	.0	.0	.0
28	---	---			.0	.0	---	---	.0	.0	.0	.0
29	---	---			.0	.0	---	---	---	---	.0	.0
30	---	---			.0	.0	---	---	---	---	.0	.0
31	---	---			.0	.0	---	---	---	---	.0	.0
MONTH	14.0	1.0			.5	.0	.0	.0	.0	.0	.0	.0

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	.0	.0	23.0	5.5	25.5	10.0	20.5	16.5	27.0	16.0	24.0	9.5
2	.0	.0	17.5	9.5	25.5	9.5	28.0	16.0	28.5	13.0	21.0	12.0
3	.5	.0	10.0	6.5	19.5	13.0	28.0	15.0	28.0	14.5	23.0	11.5
4	.5	.0	17.5	4.5	24.5	10.0	30.0	12.5	29.5	15.0	22.0	9.5
5	2.0	.0	19.5	4.0	26.5	11.5	31.0	12.5	29.0	12.0	17.0	13.5
6	4.5	.5	15.5	7.0	25.5	11.0	30.0	13.0	27.5	12.0	22.0	12.5
7	3.5	2.0	18.5	3.5	25.0	14.0	29.5	15.0	28.5	12.0	19.0	12.5
8	5.0	1.0	11.0	4.0	27.0	14.5	30.5	14.5	26.0	11.0	21.0	10.0
9	7.5	1.0	19.5	4.0	27.5	13.5	26.5	16.0	26.0	13.5	19.0	10.5
10	10.0	2.0	19.5	2.5	27.5	12.5	29.0	14.5	18.5	12.5	21.0	12.0
11	10.0	2.0	13.5	4.0	27.5	13.0	27.0	16.5	18.5	12.0	21.5	10.0
12	11.5	2.0	13.5	3.0	29.5	13.5	27.5	17.0	24.0	14.0	19.5	8.5
13	13.5	3.5	18.5	3.5	27.0	12.0	26.5	18.0	21.5	13.0	21.0	8.5
14	13.5	.5	19.0	3.5	18.0	8.5	30.0	18.0	23.0	14.0	20.5	8.0
15	16.5	4.5	16.0	7.0	22.5	5.5	30.5	14.0	19.5	12.0	20.5	7.5
16	19.0	3.0	12.0	7.5	25.5	6.5	24.0	14.5	26.5	10.5	19.5	8.0
17	18.0	4.0	15.0	7.0	25.5	9.5	23.0	16.0	27.0	10.0	18.5	5.5
18	16.0	.5	18.0	7.0	24.5	9.5	29.0	14.5	26.5	9.0	18.5	5.0
19	19.0	5.5	22.0	7.0	28.0	9.5	29.5	15.5	22.5	10.0	19.0	5.5
20	17.0	2.5	15.5	8.5	28.0	11.0	29.5	12.5	23.5	11.0	19.5	8.5
21	13.5	2.5	11.5	6.0	28.0	11.5	29.5	13.5	17.5	11.0	19.0	10.0
22	15.5	3.5	12.0	7.0	29.5	11.5	30.5	12.5	25.0	11.0	20.0	11.0
23	20.0	2.0	18.0	9.0	28.0	12.0	26.5	11.5	25.5	10.0	17.5	8.5
24	22.5	3.0	19.5	6.5	30.0	12.0	27.0	13.5	22.5	11.0	16.5	11.0
25	23.0	5.5	19.0	8.0	32.0	11.5	28.0	15.0	26.0	10.0	17.0	8.5
26	22.5	4.0	20.0	10.0	31.5	15.0	20.5	14.5	26.5	11.5	15.5	5.5
27	20.0	4.5	20.0	12.0	28.0	16.0	26.5	11.5	26.5	11.5	16.5	4.0
28	22.0	4.0	20.0	10.5	26.5	16.0	28.0	12.0	24.5	10.5	17.0	7.0
29	22.0	5.0	24.0	11.0	30.5	13.5	25.0	13.5	22.0	13.0	16.5	8.0
30	21.0	6.0	25.0	9.0	30.5	13.5	25.5	15.5	24.5	13.5	16.5	8.0
31	---	---	20.5	13.0	---	---	27.5	14.5	23.0	11.5	---	---
MONTH	23.0	.0	25.0	2.5	32.0	5.5	31.0	11.5	29.5	9.0	24.0	4.0
YEAR	32.0	.0										

NOTE: NUMBER OF MISSING DAYS OF RECORD EXCEEDED 20% OF YEAR

09250700 MORGAN GULCH NEAR AXIAL, CO

LOCATION.--Lat 40°20'09", long 107°53'06", in SW¼SW¼ sec.31, T.5 N., R.93 W., Moffat County, Hydrologic Unit 14050002, on right bank 30 ft (9.1 m) upstream from County Road 32 and 5.9 mi (9.5 km) northwest of Axial.

DRAINAGE AREA.--25.6 mi² (66.3 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1980 to September 1981.

GAGE.-Water-stage recorder. Altitude of gage is 6,330 ft (1,929 m), from topographic map.

REMARKS.--Records fair. No diversion above station.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 9.2 ft³/s (0.26 m³/s) at 2330 Oct. 14, gage height, 2.75 ft (0.838 m), maximum gage height, 2.86 ft (0.872 m) at 1200 Nov. 25 (backwater from ice); minimum daily discharge, 0.08 ft³/s (0.002 m³/s) Sept. 20.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.59	1.5	1.4	.80	.60	1.1	1.5	1.5	1.4	.44	.48	.12
2	.59	1.5	1.4	.90	.60	1.2	2.4	1.6	1.2	.84	.46	.10
3	.59	1.5	1.5	1.1	.60	1.2	2.2	1.7	1.5	.71	.44	.12
4	.66	1.5	1.4	1.2	.60	1.2	2.0	1.8	1.5	.57	.43	.09
5	.66	1.5	1.4	1.1	.60	1.5	1.9	1.9	1.2	.54	.43	.11
6	.76	1.5	1.3	.90	.60	1.4	1.9	2.4	1.1	.94	.41	.13
7	.74	1.4	1.2	.80	.60	1.4	2.0	2.1	1.1	.88	.39	.11
8	.77	1.4	1.2	.70	.60	1.4	2.8	1.9	.91	.78	.42	.11
9	.78	1.4	1.1	.70	.60	1.3	2.1	1.9	.83	.77	.43	.13
10	.79	1.4	1.1	.70	.60	1.4	1.7	1.7	.91	.80	.44	.15
11	.81	1.5	1.1	.70	.60	1.4	1.9	2.1	.95	.81	.48	.12
12	.81	1.4	1.1	.70	.60	1.3	1.5	2.1	.78	1.0	.53	.11
13	1.1	1.4	1.1	.70	.70	1.3	1.4	1.9	.66	.92	.51	.10
14	2.0	1.4	1.1	.70	.70	1.3	1.4	1.6	.73	.82	.50	.09
15	1.6	1.4	1.1	.70	.70	1.3	1.6	1.5	.74	.74	.60	.09
16	1.4	1.4	1.0	.70	.70	1.2	1.6	2.0	.69	.71	.57	.09
17	1.7	1.4	1.0	.60	.70	1.2	1.7	2.5	.55	.75	.45	.09
18	2.0	1.4	1.0	.60	.70	1.3	2.0	2.2	.51	.74	.41	.09
19	1.8	1.4	1.0	.60	.70	1.7	2.0	1.8	.47	.69	.21	.09
20	1.5	1.4	1.0	.60	.70	1.2	1.7	2.0	.42	.57	.14	.08
21	1.4	1.4	1.0	.60	.70	1.3	1.8	2.8	.37	.50	.13	.09
22	1.3	1.4	.90	.60	.70	1.7	1.7	2.5	.35	.49	.13	.09
23	1.2	1.4	1.0	.60	.70	1.6	1.9	2.2	.33	.48	.12	.09
24	1.5	1.1	1.0	.60	.70	1.6	2.3	1.9	.30	.50	.11	.09
25	1.6	1.1	1.3	.60	.80	1.8	1.9	1.8	.27	.59	.11	.09
26	1.6	1.1	1.3	.60	.90	1.6	1.7	1.7	.25	.57	.11	.10
27	1.7	1.1	1.3	.60	1.0	2.0	1.4	1.8	.29	.65	.11	.09
28	1.7	1.1	1.3	.60	1.1	2.0	1.2	2.2	.44	.53	.10	.09
29	1.7	1.1	1.3	.60	---	1.6	1.3	1.9	.42	.48	.10	.09
30	1.7	1.4	1.1	.60	---	1.6	1.3	1.5	.39	.49	.15	.09
31	1.6	---	.90	.60	---	1.8	---	1.6	---	.50	.14	---
TOTAL	38.65	40.9	35.90	22.10	19.40	44.9	53.8	60.1	21.56	20.80	10.04	3.03
MEAN	1.25	1.36	1.16	.71	.69	1.45	1.79	1.94	.72	.67	.32	.10
MAX	2.0	1.5	1.5	1.2	1.1	2.0	2.8	2.8	1.5	1.0	.60	.15
MIN	.59	1.1	.90	.60	.60	1.1	1.2	1.5	.25	.44	.10	.08
AC-FT	77	81	71	44	38	89	107	119	43	41	20	6.0

WTR YR 1981 TOTAL 371.18 MEAN 1.02 MAX 2.8 MIN .08 AC-FT 736

NOTE.--NO GAGE-HEIGHT RECORD DEC. 31 TO MAR. 1.

09250700 MORGAN CREEK NEAR AXIAL, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--September 1980 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: September 1980 to September 1981 (discontinued).
WATER TEMPERATURE: September 1980 to September 1981 (discontinued).

INSTRUMENTATION.--Water-quality monitor September 1980 to current year.

REMARKS.--Maximum and minimu values of specific conductance are available in the district office.

EXTREMES FOR PERIOD OF RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 1,860 micromhos Jan. 13, 1981; minimum, 1,260 micromhos Oct. 15, and Nov. 30, 1980, July 6, 1981.
WATER TEMPERATURE: Maximum, 28.5°C June 25, 1981; minimum, 0.0°C on many days Noveber 1980 to March 1981.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	HARD-NESS (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)
JAN 21...	1125	.62	1690	1420	8.2	.0	11.0	920	120	150
FEB 24...	1110	.66	1480	1480	8.3	.0	11.6	790	100	130
APR 01...	1340	1.6	1550	1560	8.4	14.0	8.5	890	110	150
28...	1410	1.2	1550	1520	8.3	21.5	7.4	810	94	140
MAY 29...	0910	1.9	1520	1490	8.2	13.5	8.8	790	100	130
JUN 25...	1000	.27	1500	1490	8.2	16.0	--	750	85	130
JUL 15...	0945	.59	1500	1520	8.2	15.0	7.5	800	88	140
AUG 07...	1250	.38	1450	1460	8.4	22.5	7.4	720	75	130
SEP 17...	1055	.24	1480	1590	8.3	11.0	9.1	760	75	140

DATE	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)
JAN 21...	69	1.0	8.8	510	510	20	.7	15	1200	1.6
FEB 24...	59	.9	8.5	420	460	14	.5	12	1040	1.4
APR 01...	66	1.0	9.4	410	570	17	.5	12	1180	1.6
28...	61	.9	10	440	480	16	.6	13	1080	1.5
MAY 29...	53	.8	9.2	480	440	13	.5	13	1050	1.4
JUN 25...	56	.9	9.2	420	430	17	.4	12	992	1.4
JUL 15...	66	1.0	9.1	440	470	18	.4	14	1070	1.5
AUG 07...	69	1.3	10	420	450	17	.4	9.9	1010	1.4
SEP 17...	85	1.6	8.7	430	460	16	.4	11	1060	1.4

09250700 MORGAN CREEK NEAR AXIAL, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	BORON, DIS-SOLVED (UG/L AS B)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	POTAS-SIUM 40 DIS-SOLVED (PCI/L AS K40)
JAN 21...	2.0	.00	.000	.000	130	1500	10	70	30	6.6
FEB 24...	1.9	.00	--	.000	110	350	20	40	30	6.3
APR 01...	5.1	.09	--	.000	170	680	80	50	20	7.0
28...	3.5	.03	--	.000	180	170	10	30	20	7.5
MAY 29...	5.4	.05	--	.160	150	160	20	30	20	6.9
JUN 25...	.72	.03	--	.030	160	150	10	30	20	6.9
JUL 15...	1.7	.02	--	.030	160	590	20	50	20	6.8
AUG 07...	1.0	.00	--	.000	160	180	11	20	15	--
SEP 17...	.69	.03	--	.010	150	350	<10	30	17	--

DATE	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL)	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS-SOLVED (UG/L AS AS)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD)	CADMIUM DIS-SOLVED (UG/L AS CD)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU)	COPPER, DIS-SOLVED (UG/L AS CU)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB)	LEAD, DIS-SOLVED (UG/L AS PB)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG)
APR 28...	620	0	1	2	0	<1	4	1	0	3	.0
JUL 15...	610	20	--	--	--	--	--	--	2	1	--

DATE	MERCURY DIS-SOLVED (UG/L AS HG)	MOLYB-DENUM, TOTAL RECOV-ERABLE (UG/L AS MO)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI)	NICKEL, DIS-SOLVED (UG/L AS NI)	SELE-NIUM, TOTAL (UG/L AS SE)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN)	ZINC, DIS-SOLVED (UG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C)
APR 28...	.0	2	<10	4	0	1	1	20	10	9.2	13
JUL 15...	--	--	--	--	--	--	--	30	10	7.3	3.1

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
JAN 21...	1125	.62	176	.29	--
FEB 24...	1110	.68	95	.17	--
APR 01...	1340	1.6	179	.77	79
28...	1410	1.2	404	1.3	--
MAY 29...	0910	1.9	331	1.7	61
JUN 25...	1000	.27	27	.02	--
JUL 15...	0945	.59	101	.16	--
AUG 07...	1250	.38	25	.03	--
SEP 17...	1055	.24	35	.02	--

09250700 MORGAN CREEK NEAR AXIAL, CO--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1600	1500	1320	1600	1650	1560	1560	1550	1530	1490	1500	1480
2	1600	1500	1330	1590	1700	1570	1550	1550	1540	1450	1490	1480
3	1610	1510	1330	1600	1780	1600	1530	1560	1530	1410	1490	1460
4	1600	1520	1330	1600	---	1580	1530	1550	1540	1390	1480	1470
5	1610	1530	1340	1590	---	1570	1540	1540	1540	1390	1470	1480
6	1600	1540	1350	1640	---	1540	1540	1520	1550	1330	1460	1460
7	1600	1540	1350	1710	---	1550	1540	1520	1550	1410	1460	1480
8	1600	1540	1360	1750	---	1550	1530	1520	1560	1490	1480	1470
9	1600	1550	1420	1760	---	1550	1520	1520	1570	1490	1490	1460
10	1600	1550	1480	1760	---	1530	1500	1500	1570	1520	1500	1450
11	1600	1540	1450	1790	---	1520	1520	1510	1580	1500	1510	1460
12	1600	1540	1470	1800	---	1510	1520	1510	1590	1510	1530	1450
13	1600	1580	1500	1800	---	1500	1520	1510	1590	1510	1530	1450
14	1550	1590	1510	1790	---	1500	1520	1510	1580	1520	1550	1440
15	1390	1640	1520	1770	---	1480	1510	1510	1580	1510	1500	1440
16	1480	1670	1510	1720	---	1490	1510	1520	1570	1520	1520	1430
17	1490	1700	1500	1680	---	1460	1510	1510	1560	1530	1590	1460
18	1500	1720	1470	1660	1510	1480	1510	1510	1550	1520	1600	1450
19	1500	1690	1450	1640	1510	1480	1510	1510	1540	1520	1580	1460
20	1490	---	1510	1640	1470	1480	1520	1510	1530	1520	1590	1470
21	1490	---	1530	1630	1490	1460	1530	1520	1530	1520	1610	1480
22	1480	---	1500	1630	1570	1480	1550	1510	1520	1530	1590	1500
23	1480	---	1460	1610	1560	1470	1540	1500	1510	1530	1590	1510
24	1460	---	1480	1610	1570	1450	1550	1510	1510	1530	1590	1530
25	1450	---	1490	1620	1490	1490	1550	1520	1500	1540	1580	1540
26	1450	---	1480	1660	1520	1490	1560	1510	1500	1540	1570	1560
27	1430	1610	1480	1680	1540	1510	1560	1510	1490	1550	1580	1510
28	1430	1520	1490	1660	1550	1510	1550	1510	1480	1540	1570	1550
29	1500	1430	1510	1620	---	1530	1540	1510	1500	1530	1590	1540
30	1490	1340	1550	1620	---	1510	1540	1520	1490	1500	1510	1570
31	1490	---	1620	1640	---	1540	---	1530	---	1500	1510	---
MEAN	1530	1560	1450	1670	1570	1510	1530	1520	1540	1490	1540	1480

WTR YR 1981 MEAN 1530 MAX 1800 MIN 1320

09250700 MORGAN CREEK NEAR AXIAL, CO--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	14.5	8.0	9.0	1.0	1.5	.0	.5	.0	.0	.0	5.5	.5
2	13.0	7.0	8.0	1.5	2.0	.0	1.0	.0	.0	.0	5.0	.5
3	13.0	5.5	7.0	2.0	4.0	1.0	1.0	.0	.0	.0	5.5	1.0
4	13.0	5.5	9.5	2.5	3.0	1.0	4.0	.0	.0	.0	8.5	1.0
5	13.0	6.5	9.5	2.0	2.5	.5	2.0	.0	.0	.0	8.5	1.0
6	13.0	6.5	9.5	2.0	2.5	.0	.5	.0	.0	.0	8.0	1.0
7	13.0	6.0	10.0	4.5	2.0	.0	.0	.0	.0	.0	7.0	1.0
8	13.0	6.0	9.0	4.0	.0	.0	.0	.0	.0	.0	8.0	.5
9	12.5	6.0	9.0	1.5	.0	.0	.0	.0	.0	.0	10.0	.5
10	11.0	5.0	9.0	1.0	.0	.0	.0	.0	.0	.0	11.0	.5
11	11.0	4.0	9.5	2.5	.0	.0	.0	.0	.0	.0	7.5	.5
12	10.0	6.0	8.5	4.0	.0	.0	.0	.0	.0	.0	7.5	1.0
13	10.5	7.5	5.5	2.5	.0	.0	.0	.0	.0	.0	9.0	.5
14	10.5	6.5	3.5	.5	.0	.0	.0	.0	.0	.0	9.5	.5
15	8.5	6.0	.5	.5	.0	.0	.0	.0	.0	.0	11.0	.0
16	6.0	4.0	.5	.5	.0	.0	.0	.0	.0	.0	8.5	.0
17	6.5	4.0	.5	.5	.0	.0	.0	.0	2.5	.0	7.0	.0
18	6.5	4.5	.5	.5	.0	.0	.0	.0	3.5	.0	8.5	.0
19	8.5	3.5	.5	.5	.0	.0	.0	.0	4.0	.0	9.0	.0
20	8.5	3.5	.5	.0	.0	.0	.0	.0	1.5	.0	9.0	1.0
21	8.5	3.5	.0	.0	.0	.0	.0	.0	2.0	.0	5.0	.0
22	8.5	4.5	.0	.0	1.0	.0	.0	.0	1.5	.0	13.5	.5
23	6.5	3.0	.0	.0	1.5	.0	.0	.0	3.5	.0	12.5	1.0
24	6.0	1.5	.0	.0	2.0	.0	.0	.0	5.5	.0	7.0	.5
25	6.5	2.0	.0	.0	3.0	1.0	.0	.0	5.5	.0	13.0	.5
26	6.0	2.5	.0	.0	5.0	.5	.0	.0	3.5	.0	12.0	1.5
27	4.5	2.0	.5	.0	4.5	.5	.0	.0	8.0	.5	11.5	2.0
28	4.5	1.5	.5	.0	5.0	.5	.0	.0	7.5	.5	6.5	.5
29	6.5	1.5	.5	.0	2.5	.5	.0	.0	---	---	11.0	1.0
30	8.0	1.0	1.0	.0	.5	.0	.0	.0	---	---	4.5	1.0
31	8.5	1.0	---	---	.5	.0	.0	.0	---	---	10.5	1.0
MONTH	14.5	1.0	10.0	.0	5.0	.0	4.0	.0	8.0	.0	13.5	.0

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	14.0	1.0	24.0	7.5	24.5	10.5	19.0	16.0	24.0	14.0	19.5	12.0
2	13.5	1.0	19.0	10.0	26.0	10.0	24.0	15.5	24.5	11.5	17.0	13.5
3	6.0	1.0	11.0	7.5	21.5	12.5	23.0	14.5	23.5	13.0	18.5	12.5
4	8.5	1.0	19.0	5.5	24.0	10.5	24.0	14.0	24.5	13.5	19.0	12.0
5	13.0	1.0	19.0	5.5	26.0	11.5	24.5	14.0	24.5	12.0	16.0	14.0
6	15.0	.5	15.0	7.0	25.0	11.5	23.0	15.0	24.0	12.5	17.5	13.0
7	7.0	3.0	17.5	4.5	24.5	13.0	26.0	15.5	24.0	12.5	16.5	13.5
8	12.0	2.0	12.0	5.0	26.0	13.0	27.0	14.0	23.0	11.5	17.5	12.0
9	16.5	1.5	17.5	5.0	26.0	12.5	23.0	16.0	21.5	13.0	16.5	12.5
10	17.5	.5	19.5	4.0	27.5	12.0	24.5	14.5	17.0	12.0	17.0	13.0
11	14.0	3.0	16.5	5.0	27.0	12.0	24.0	16.0	17.5	12.0	17.5	12.0
12	16.5	2.5	17.0	5.0	25.0	8.5	24.5	16.5	22.5	13.5	17.5	11.5
13	18.5	4.5	20.0	5.5	24.5	11.0	22.5	17.5	19.5	13.0	17.0	11.0
14	18.5	2.0	20.5	6.0	18.5	9.0	25.0	17.0	22.5	13.5	17.0	10.5
15	18.5	6.5	16.5	7.5	21.5	7.0	25.5	14.0	19.0	13.5	17.0	10.5
16	19.0	5.0	14.5	8.0	23.5	7.5	22.0	13.0	23.0	12.5	17.0	11.0
17	17.5	6.0	15.5	8.0	23.5	9.0	21.0	14.5	23.5	13.0	19.5	9.0
18	19.0	5.5	18.0	7.5	22.5	9.0	24.5	13.5	23.5	12.5	19.5	6.5
19	18.0	6.0	22.0	8.0	24.5	10.0	24.0	14.0	20.0	14.0	19.0	8.0
20	17.0	4.0	16.0	8.0	24.5	11.5	23.5	11.5	20.0	13.5	19.5	10.0
21	13.0	3.5	11.5	7.0	24.5	12.0	23.0	12.5	17.0	13.5	20.5	10.5
22	15.0	4.5	12.5	7.5	25.5	12.0	23.5	12.0	20.5	13.0	19.5	11.5
23	20.0	3.5	19.0	9.0	24.5	13.0	21.0	11.5	20.0	13.5	19.0	9.5
24	22.0	5.5	21.0	7.5	25.5	13.0	21.0	12.5	19.5	13.5	17.5	11.5
25	20.5	7.0	20.0	8.5	28.5	13.0	22.0	13.5	19.5	13.0	16.5	9.0
26	19.5	6.0	21.0	10.5	28.0	15.0	19.0	13.0	20.5	13.5	15.0	6.0
27	19.5	5.5	20.5	12.0	25.5	15.5	21.0	10.5	20.5	14.0	16.5	5.5
28	22.0	5.5	19.5	11.0	25.5	15.5	24.0	10.5	20.5	13.5	16.5	7.0
29	22.5	7.0	21.0	11.5	26.0	14.0	21.0	11.5	18.5	14.5	16.0	8.0
30	21.5	8.0	25.0	9.5	24.0	14.5	22.0	12.5	18.0	14.5	16.0	8.0
31	---	---	20.0	12.5	---	---	24.5	12.5	19.0	13.0	---	---
MONTH	22.5	.5	25.0	4.0	28.5	7.0	27.0	10.5	24.5	11.5	20.5	5.5

09251000 YAMPA RIVER NEAR MAYBELL, CO

LOCATION.--Lat 40°30'10", long 108°01'45", in NW¼ sec.2, T.6 N., R.95 W., Moffat County, Hydrologic Unit 14050002, on left bank 100 ft (30 m, downstream from bridge on U.S. Highway 40, 2.0 mi (3.2 km) downstream from Lay Creek, and 3.0 mi (4.8 km) east of Maybell.

DRAINAGE AREA.--3,410 mi^2 (8,830 km^2), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1904 to October 1905, June 1910 to November 1912, April 1916 to current year. Monthly discharge only for some periods, published in WSP 1313. No winter records prior to 1917.

GAGE.--Water-stage recorder. Datum of gage is 5,900.23 ft (1,798.390 m), National Geodetic Vertical Datum of 1929. See WSP 1733 for history of changes prior to Mar. 9, 1937.

REMARKS.--Records good except those for winter period, which are poor. Natural flow of stream affected by transbasin diversions, numerous storage reservoirs, and diversions above station for irrigation of about 65,000 acres (263 km^2) above and about 800 acres (3.24 km^2) below station.

AVERAGE DISCHARGE.--65 years (water years 1917-81), 1,537 ft^3/s (43.53 m^3/s), 1,114,000 acre-ft/yr (1,373 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge observed, 17,900 ft^3/s (507 m^3/s) May 19, 1917, gage height, 10.4 ft (3.17 m), from floodmarks, site and datum then in use, from rating curve extended above 12,000 ft^3/s (340 m^3/s); minimum daily, 2.0 ft^3/s (0.057 m^3/s) July 17-19, 1934.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 6,490 ft^3/s (184 m^3/s) at 0130 June 9, gage height, 6.59 ft (2.001 m), no peak above base of 7,000 ft^3/s (198 m^3/s); minimum daily, 36 ft^3/s (1.02 m^3/s) Sept. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	113	302	121	185	185	293	405	2590	5450	968	230	36
2	106	298	123	180	190	310	374	2810	5390	782	209	96
3	108	298	130	180	190	342	358	3200	5140	760	209	73
4	111	316	135	180	195	366	417	4750	5480	1040	205	53
5	95	316	140	175	200	335	554	4420	5570	1060	177	48
6	85	316	150	175	200	302	437	3410	5180	874	153	51
7	108	311	160	175	200	329	377	3090	5090	684	139	56
8	117	307	170	170	205	300	379	2970	5860	535	112	56
9	125	302	180	170	210	342	472	2420	6070	452	94	59
10	132	293	190	165	210	312	451	2080	5910	402	79	79
11	127	298	195	165	215	311	453	1800	5120	391	75	81
12	117	289	197	165	220	306	595	1720	4390	410	81	81
13	130	302	200	160	220	319	681	1760	3650	453	114	84
14	137	311	205	160	225	313	740	1680	3130	604	92	84
15	177	355	210	160	230	308	784	1590	2630	631	205	86
16	203	340	215	155	230	316	850	1570	2080	554	430	86
17	256	264	215	155	235	329	923	1640	1620	454	161	80
18	298	210	210	155	240	363	1190	1840	1440	399	133	69
19	325	116	210	155	240	382	1380	2030	1280	398	122	60
20	325	110	205	155	245	346	1640	1830	1190	497	108	54
21	345	109	205	155	250	316	1850	1910	1130	467	89	54
22	345	108	200	160	250	334	1570	2260	1100	400	79	54
23	345	107	200	165	255	353	1370	2990	1050	324	66	55
24	335	106	200	165	270	352	1150	4300	971	274	60	50
25	316	105	195	170	278	351	1080	4090	869	250	62	42
26	289	104	195	170	327	355	1480	3890	791	241	63	38
27	268	103	195	170	336	364	2020	4170	698	248	60	43
28	276	102	190	175	340	399	2390	4870	648	354	51	42
29	298	104	190	175	---	504	2380	5500	877	475	42	43
30	298	115	185	180	---	503	2420	5390	1200	352	44	48
31	298	---	185	180	---	443	---	5380	---	285	41	---
TOTAL	6608	6717	5701	5205	6591	10798	31170	93950	91004	16018	3785	1841
MEAN	213	224	184	168	235	348	1039	3031	3033	517	122	61.4
MAX	345	355	215	185	340	504	2420	5500	6070	1060	430	96
MIN	85	102	121	155	185	293	358	1570	648	241	41	36
AC-FT	13110	13320	11310	10320	13070	21420	61830	186300	180500	31770	7510	3650

CAL YR 1980 TOTAL 643320 MEAN 1758 MAX 11500 MIN 85 AC-FT 1276000
WTR YR 1981 TOTAL 279388 MEAN 765 MAX 6070 MIN 36 AC-FT 554200

09251000 YAMPA RIVER NEAR MAYBELL, CO--Continued
(National Stream-Quality Accounting Network Station)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--November 1950 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: November 1950 to August 1973, July 1975 to current year.
WATER TEMPERATURES: November 1950 to August 1973, July 1975 to current year.
SUSPENDED-SEDIMENT DISCHARGE: December 1950 to May 1958, October 1975 to September 1976, October 1977 to September 1978.

INSTRUMENTATION.--Water-quality monitor since July 1975.

REMARKS.--Daily maximum and minimum specific-conductance data available in district office.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 1,060 micromhos Apr. 10, 1980; minimum daily, 94 micromhos June 14, 1959.
WATER TEMPERATURES: Maximum, 33.0°C Aug. 29, 1976; minimum, freezing point on many days during winter months.
SEDIMENT CONCENTRATIONS: Maximum daily, 6,180 mg/L Aug. 16, 1981; minimum daily, 1 mg/L several days during December 1975 to February 1976, Jan. 6, 1980.
SEDIMENT LOADS: Maximum daily, 47,100 tons (42,700 t) May 9, 1958; minimum daily, 0.49 ton (0.44 t) Sept. 6, 1976.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 788 micromhos Mar. 27; minimum not determined.
WATER TEMPERATURES: Maximum, 26.0°C Aug. 6; minimum 0.0°C many days during November to February.
SEDIMENT CONCENTRATIONS: Maximum daily, 6,180 mg/L Aug. 16; minimum daily, 4 mg/L Jan. 19.
SEDIMENT LOADS: Maximum daily, 12,100 tons (10,976 t) May 4; minimum daily, 1.00 ton (0.90 t) Sept. 28, 30.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)	NITRO-GEN DIS-SOLVED (MG/L AS N)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./100 ML)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD-NESS (MG/L AS CACO3)
OCT												
03...	1755	111	--	--	--	--	--	--	--	--	--	--
09...	1330	125	--	--	--	--	--	--	--	--	--	--
09...	1500	125	725	713	8.3	17.0	.80	9.6	.53	K4	K4	240
10...	1745	133	--	--	--	--	--	--	--	--	--	--
16...	1815	203	--	--	--	--	--	--	--	--	--	--
25...	1415	223	--	--	--	--	--	--	--	--	--	--
31...	1742	240	--	--	--	--	--	--	--	--	--	--
NOV												
05...	1200	233	--	--	--	--	--	--	--	--	--	--
05...	1230	233	615	606	7.9	7.0	2.2	10.6	.79	<2	150	220
07...	1710	223	--	--	--	--	--	--	--	--	--	--
11...	1700	207	--	--	--	--	--	--	--	--	--	--
20...	1000	82	--	--	--	--	--	--	--	--	--	--
20...	1015	82	625	--	6.0	.5	--	12.0	--	<4	K16	--
DEC												
14...	1455	81	--	--	--	--	--	--	--	--	--	--
17...	0930	208	660	--	8.2	.0	--	12.4	.68	K8	<4	--
17...	1040	208	--	--	--	--	--	--	--	--	--	--
21...	1540	125	--	--	--	--	--	--	--	--	--	--
25...	1530	157	--	--	--	--	--	--	--	--	--	--
JAN												
01...	1318	197	--	--	--	--	--	--	--	--	--	--
10...	1655	335	--	--	--	--	--	--	--	--	--	--
17...	1305	173	--	--	--	--	--	--	--	--	--	--
19...	1000	153	725	713	8.1	.0	1.0	--	.67	K5	K6	260
FEB												
23...	1030	258	660	678	8.7	.5	2.6	12.5	.98	<2	K24	240
APR												
06...	1300	432	725	748	8.7	9.0	5.4	10.6	.62	K8	K12	260
23...	1015	1400	280	285	7.9	10.0	38	9.2	.55	K17	67	110
MAY												
19...	0840	2060	330	317	7.7	12.5	20	8.4	.74	44	110	120
JUN												
30...	1200	1140	235	238	8.0	22.0	6.9	7.7	.76	91	260	91
JUL												
27...	1000	244	424	424	8.3	19.0	8.0	8.3	.75	79	290	150
AUG												
02...	1625	207	--	--	--	--	--	--	--	--	--	--
15...	1440	128	--	--	--	--	--	--	--	--	--	--
18...	0945	136	540	521	7.9	18.0	150	7.4	.92	--	--	180
SEP												
10...	1245	--	640	658	8.4	17.0	46	9.4	.61	1100	3700	220

K BASED ON NON-IDEAL COLONY COUNT.

09251000 YAMPA RIVER NEAR MAYBELL, CO--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)
OCT												
03...	--	--	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--	--	--	--
09...	42	32	70	2.0	3.3	170	160	30	.3	.9	449	441
10...	--	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--	--	--	--
NOV												
05...	--	--	--	--	--	--	--	--	--	--	--	--
05...	45	25	44	1.3	2.7	140	130	18	.3	1.7	376	351
07...	--	--	--	--	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--	--
DEC												
14...	--	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--	--	--
JAN												
01...	--	--	--	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--	--
19...	52	32	66	1.8	2.7	190	190	23	.4	1.3	464	482
FEB												
23...	46	31	55	1.5	2.5	150	180	19	.3	2.3	421	427
APR												
06...	49	33	59	1.6	2.8	150	220	15	.3	1.1	478	471
23...	26	11	14	.6	1.6	78	52	4.3	.2	8.7	177	165
MAY												
19...	27	12	23	.9	1.6	77	72	5.2	.1	8.7	196	196
JUN												
30...	23	8.2	15	.7	1.4	75	47	4.9	.2	7.2	145	152
JUL												
27...	37	15	29	1.0	2.2	130	70	14	.2	2.7	254	249
AUG												
02...	--	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--	--
18...	44	18	39	1.4	3.2	150	95	17	.2	2.7	312	310
SEP												
10...	50	23	54	1.7	5.2	170	140	26	.3	5.6	415	406

09251000 YAMPA RIVER NEAR MAYBELL, CO--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, DISSOLVED (TONS PER DAY)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)
OCT												
03...	--	--	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--	--	--	--
09...	.61	152	.05	.00	.050	.020	.35	.51	.40	.00	.53	.45
10...	--	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--	--	--	--
NOV												
05...	--	--	--	--	--	--	--	--	--	--	--	--
05...	.51	237	6.8	.00	.000	.000	.91	.79	.91	.12	.79	7.7
07...	--	--	--	--	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--	--
DEC												
14...	--	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	.00	.16	.010	.030	.60	.49	.61	.09	.52	.61
17...	--	--	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--	--	--
JAN												
01...	--	--	--	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--	--
19...	.63	192	.00	.00	.080	.020	.59	.65	.67	.00	.67	.67
FEB												
23...	.57	293	.12	.13	.000	.020	.49	.61	.49	.00	.63	.61
APR												
06...	.65	558	.00	.02	.040	.030	1.2	.57	1.20	.60	.60	1.2
23...	.24	669	.10	.17	.150	.090	.60	.29	.75	.37	.38	.85
MAY												
19...	.27	1090	.03	.00	.160	.090	.77	.65	.93	.19	.74	.96
JUN												
30...	.20	446	.01	.01	.060	.040	.86	.71	.92	.17	.75	.93
JUL												
27...	.35	167	.09	.09	.160	.100	.63	.56	.79	.13	.66	.88
AUG												
02...	--	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--	--
18...	.42	115	1.1	.14	.090	.070	.91	.71	1.00	.22	.78	2.1
SEP												
10...	.56	--	<.09	.02	.120	.020	.98	.57	1.10	.51	.59	--

09251000 YAMPA RIVER NEAR MAYBELL, CO--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG)	CARBON, ORGANIC TOTAL (MG/L AS C)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	CARBON, ORGANIC SUS- PENDED TOTAL (MG/L AS C)	PHYTO- PLANK- TON, TOTAL (CELLS PER ML)	PERI- PHYTON BIOMASS ASH WEIGHT G/SQ M	PERI- PHYTON BIOMASS TOTAL DRY WEIGHT G/SQ M	CHLOR-A PERI- PHYTON CHROMO- GRAPHIC FLUOROM (MG/M2)	CHLOR-B PERI- PHYTON CHROMO- GRAPHIC FLUOROM (MG/M2)	BIOMASS CHLORO- PHYLL RATIO PERI- PHYTON (UNITS)
OCT												
03...	--	--	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--	--	--	--
09...	.030	.040	0	11	--	--	--	.709	.866	.260	.090	604
10...	--	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--	--	--	--
NOV												
05...	--	--	--	--	--	--	--	--	--	--	--	--
05...	.050	.030	0	--	6.4	.4	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	1200	--	--	--	--	--
DEC												
14...	--	--	--	--	--	--	--	--	--	--	--	--
17...	.030	.050	--	5.3	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--	--	--
JAN												
01...	--	--	--	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--	--
19...	.030	.040	--	6.3	--	--	--	--	--	--	--	--
FEB												
23...	.120	.040	--	4.9	--	--	--	--	--	--	--	--
APR												
06...	.070	.020	0	--	14	.5	--	--	--	--	--	--
23...	.110	.020	--	7.7	--	--	--	--	--	--	--	--
MAY												
19...	.080	.060	--	8.5	--	--	12000	--	--	--	--	--
JUN												
30...	.060	.010	0	--	7.4	.4	3600	--	--	--	--	--
JUL												
27...	.040	<.010	--	5.1	--	--	320	--	--	--	--	--
AUG												
02...	--	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--	--
18...	.160	.010	0	--	9.8	.3	1100	--	--	--	--	--
SEP												
10...	.070	.020	--	7.6	--	--	6000	--	--	--	--	--

09251000 YAMPA RIVER NEAR MAYBELL, CO--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT					
03...	1755	111	4	1.2	--
09...	1330	125	7	2.4	--
10...	1745	133	145	52	--
16...	1815	203	244	134	--
25...	1415	223	9	5.4	--
31...	1742	240	13	8.4	--
NOV					
05...	1200	233	9	5.7	--
07...	1710	223	15	9.0	--
11...	1700	207	16	8.9	--
20...	1000	82	17	3.8	--
DEC					
14...	1455	81	15	3.3	--
17...	1040	208	38	21	--
21...	1540	125	4	1.3	--
25...	1530	157	142	60	--
JAN					
01...	1318	197	8	4.3	--
10...	1655	335	31	28	--
17...	1305	173	6	2.8	--
19...	1000	153	4	1.7	--
APR					
23...	1015	1400	93	352	86
JUL					
07...	1530	--	16	--	--
27...	1000	244	16	11	--
AUG					
02...	1625	207	11	6.1	--
15...	1440	128	33	11	--
18...	1030	--	244	--	--
19...	1415	--	9	--	--
22...	1945	--	62	--	--
29...	1125	--	31	--	--
SEP					
06...	1605	--	11	--	--
13...	1528	--	18	--	--
20...	1315	--	19	--	--
27...	1305	--	12	--	--

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	638	611	608	632	635	659	659	---	---	233	411	650
2	658	611	602	633	652	660	695	---	---	272	413	637
3	622	610	584	645	686	680	732	---	---	303	426	589
4	635	605	575	650	690	680	762	---	---	312	436	636
5	652	592	595	630	691	672	737	---	---	284	445	677
6	673	581	589	626	697	692	695	---	---	286	446	678
7	---	578	587	636	699	694	669	---	---	301	449	656
8	---	576	594	661	689	688	684	---	---	321	462	631
9	679	576	620	655	674	682	699	---	---	338	472	669
10	660	579	657	647	662	701	665	---	---	356	486	669
11	648	581	662	661	662	708	623	---	---	353	499	674
12	650	580	668	703	661	705	601	---	---	355	506	692
13	642	573	700	710	643	704	544	---	---	371	490	679
14	632	575	730	712	648	705	477	---	---	380	538	667
15	632	591	700	717	634	659	449	---	---	385	515	676
16	653	603	691	703	614	671	428	---	---	362	---	730
17	674	607	657	696	599	657	418	---	---	365	---	670
18	705	599	634	687	611	650	407	---	---	370	---	658
19	672	606	615	680	607	647	361	301	---	379	514	651
20	639	611	592	673	604	663	325	314	---	376	526	655
21	606	642	577	661	627	682	315	320	---	361	555	671
22	576	687	557	653	653	714	---	330	---	360	557	646
23	568	720	569	650	642	720	---	299	---	376	559	656
24	570	678	563	649	641	724	---	285	---	393	576	636
25	564	677	570	642	646	747	---	---	---	410	582	671
26	558	685	589	653	651	764	---	---	---	423	586	677
27	567	690	594	644	638	775	---	---	---	428	593	695
28	561	687	615	627	654	742	---	---	---	437	607	703
29	563	659	643	619	---	721	---	---	---	426	619	719
30	569	622	634	623	---	688	---	---	237	411	615	724
31	590	---	648	631	---	671	---	---	---	402	633	---

09251000 YAMPA RIVER NEAR MAYBELL, CO--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	22.0	13.0	7.5	3.5	.0	.0	.5	.0	.0	.0	5.5	1.0
2	21.5	12.5	7.0	4.0	.5	.0	.5	.0	.0	.0	3.5	1.5
3	21.5	10.0	5.5	4.0	1.5	.0	.5	.0	.0	.0	3.5	1.0
4	20.5	11.0	7.5	4.0	1.5	.0	1.0	.0	.0	.0	5.5	2.0
5	20.5	7.5	8.0	4.5	1.5	.0	.5	.0	.0	.0	5.5	2.5
6	20.5	11.0	8.0	5.0	2.0	.0	.5	.0	.0	.0	6.0	3.0
7	---	---	9.0	6.0	1.5	.0	.5	.0	.0	.0	5.5	3.0
8	---	---	8.0	5.5	.0	.0	.5	.0	.0	.0	6.5	4.0
9	14.5	10.5	8.0	4.5	.5	.0	.5	.0	.0	.0	7.5	3.5
10	16.5	9.5	8.0	4.5	.5	.0	.5	.0	.0	.0	8.0	4.0
11	16.0	8.0	7.0	4.5	.5	.0	.5	.0	.0	.0	7.5	5.0
12	13.5	8.0	8.5	5.5	.0	.0	.5	.0	.0	.0	7.0	5.0
13	15.0	9.5	6.0	4.0	.5	.0	.5	.0	.0	.0	7.5	4.5
14	13.5	10.0	4.0	2.0	.5	.0	.5	.0	.0	.0	8.5	4.0
15	11.0	8.5	2.5	.5	.5	.0	.5	.0	.0	.0	9.5	4.5
16	8.5	6.0	1.5	.0	.5	.0	.5	.0	.0	.0	8.5	5.0
17	7.0	5.0	1.5	.0	.5	.0	.5	.0	.0	.0	7.0	4.0
18	8.5	5.5	1.0	.0	.5	.0	.5	.0	.0	.0	7.0	4.5
19	9.5	5.5	1.5	.0	.5	.0	.5	.0	.0	.0	7.0	4.5
20	10.0	6.0	1.0	.0	.5	.0	.5	.0	.0	.0	8.0	5.5
21	10.5	6.5	1.0	.0	.0	.0	.5	.0	.0	.0	6.0	4.0
22	10.0	6.5	.0	.0	.5	.0	.5	.0	.5	.0	8.5	3.5
23	8.0	5.0	1.0	.0	.0	.0	.5	.0	.5	.0	9.5	6.0
24	7.5	3.5	.5	.0	.5	.0	.5	.0	1.5	.0	8.0	6.0
25	8.0	3.5	.5	.0	.5	.0	.5	.0	2.5	.0	9.0	4.5
26	6.5	4.0	.5	.0	1.0	.0	.5	.0	2.0	.0	10.5	6.5
27	5.0	2.5	.0	.0	1.0	.0	.0	.0	3.0	.0	10.0	7.0
28	4.5	2.0	.0	.0	1.5	.0	.5	.0	5.0	.5	7.5	5.5
29	5.0	1.0	.5	.0	1.0	.0	.5	.0	---	---	7.5	4.5
30	6.5	2.0	1.0	.0	1.0	.0	.5	.0	---	---	6.0	4.0
31	7.0	3.0	---	---	.5	.0	.0	.0	---	---	7.0	2.5
MONTH	22.0	1.0	9.0	.0	2.0	.0	1.0	.0	5.0	.0	10.5	1.0

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	9.0	4.5	16.0	13.0	14.0	13.0	22.0	20.0	24.0	19.5	22.5	14.0
2	10.5	6.0	14.5	13.0	14.5	10.0	23.5	19.5	24.5	18.5	19.0	14.5
3	9.0	5.5	13.5	10.5	14.5	10.0	23.5	19.5	25.0	19.0	22.0	14.0
4	6.0	4.0	10.5	9.5	14.5	13.5	24.0	19.5	25.0	19.0	22.0	14.5
5	7.5	3.0	12.0	9.0	16.0	13.0	25.0	20.5	25.5	18.0	17.5	15.5
6	10.5	5.5	13.0	11.5	16.0	14.5	25.0	21.0	26.0	19.0	22.5	14.5
7	8.5	6.5	12.5	10.5	16.0	15.0	25.0	21.5	25.5	18.5	20.0	15.0
8	8.5	6.0	11.0	9.5	16.0	14.5	25.0	21.0	26.0	17.0	22.5	13.0
9	11.0	6.5	11.0	8.0	16.5	14.5	25.0	21.5	25.0	18.0	22.0	14.0
10	13.0	8.0	13.0	9.5	16.5	14.5	25.0	20.5	19.5	16.0	17.5	14.5
11	13.0	10.0	12.5	10.5	17.5	15.0	25.5	21.5	21.0	15.5	21.0	14.5
12	13.5	10.0	12.0	10.0	17.5	16.0	24.5	21.5	23.5	16.5	21.0	14.5
13	14.0	10.0	13.5	9.5	18.0	15.0	24.5	21.5	22.0	17.5	23.5	15.0
14	14.5	10.0	14.5	10.5	15.0	12.5	25.0	21.0	24.0	16.0	22.5	13.0
15	14.5	12.0	14.5	12.5	15.0	11.5	24.5	20.5	25.0	18.0	23.5	12.5
16	14.5	10.5	14.0	12.5	16.0	12.5	22.5	20.0	18.0	17.0	22.5	13.0
17	15.5	11.5	13.0	11.5	17.0	13.5	22.5	19.0	22.5	16.0	22.0	11.0
18	15.0	11.5	14.0	11.0	18.0	14.0	24.0	18.5	22.0	16.0	21.5	11.0
19	14.5	12.0	15.0	12.0	19.5	15.0	25.0	19.5	21.5	17.5	21.0	11.0
20	13.0	11.0	13.5	12.0	20.5	16.0	24.0	18.5	22.0	17.5	22.0	10.0
21	11.0	9.5	12.0	10.0	21.0	17.0	24.5	18.5	19.5	17.0	22.5	13.5
22	11.0	9.0	10.5	9.5	22.0	17.0	23.5	18.0	21.0	16.0	22.0	14.5
23	13.5	9.0	12.0	9.5	21.5	18.5	24.0	18.0	21.5	15.5	22.0	12.5
24	15.0	10.5	13.0	10.0	23.0	18.0	23.5	17.0	20.0	16.0	21.0	14.0
25	16.5	12.5	13.5	11.5	24.0	19.0	24.0	18.0	21.0	15.5	18.5	13.5
26	16.0	13.0	14.0	12.0	23.5	20.0	23.5	17.0	22.5	16.0	19.5	9.5
27	15.0	12.5	14.0	13.0	23.5	20.0	22.5	16.0	22.5	17.5	19.5	9.0
28	14.5	12.0	13.5	12.5	23.5	19.5	21.5	18.0	22.5	16.5	21.0	10.0
29	15.0	12.0	13.5	12.0	23.5	19.0	22.0	19.0	22.0	17.5	17.5	11.5
30	15.5	13.0	14.5	12.5	24.0	20.5	22.0	19.0	22.5	16.0	19.0	11.5
31	---	---	14.5	13.5	---	---	23.5	18.5	22.5	15.0	---	---
MONTH	16.5	3.0	16.0	8.0	24.0	10.0	25.5	16.0	26.0	15.0	23.5	9.0

09251000 YAMPA RIVER NEAR MAYBELL, CO--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
		OCTOBER			NOVEMBER			DECEMBER	
1	113	---	---	302	36	29	121	---	2.0
2	106	12	3.4	298	30	24	123	---	2.0
3	108	12	3.5	298	32	26	130	---	3.0
4	111	13	3.9	316	40	34	135	---	3.0
5	95	13	3.3	316	25	21	140	---	3.0
6	85	16	3.7	316	20	17	150	---	3.0
7	108	15	4.4	311	25	21	160	7	3.0
8	117	15	4.7	307	22	18	170	---	4.0
9	125	30	10	302	14	11	180	---	5.0
10	132	35	12	293	20	16	190	---	6.0
11	127	21	7.2	298	22	18	195	---	7.0
12	117	18	5.7	289	25	20	197	---	7.0
13	130	13	4.6	302	30	24	200	---	8.0
14	137	16	5.9	311	10	8.4	205	15	8.3
15	177	100	48	355	---	10	210	---	10
16	203	130	71	340	---	10	215	---	15
17	256	60	41	264	---	7.0	215	38	22
18	298	23	19	210	---	7.0	210	---	20
19	325	---	30	116	---	5.0	210	---	15
20	325	---	30	110	19	5.6	205	---	5.0
21	345	---	30	109	---	5.0	205	8	4.4
22	345	47	44	108	---	5.0	200	---	4.0
23	345	43	40	107	---	5.0	200	---	30
24	335	---	25	106	---	4.0	200	---	50
25	316	26	22	105	---	3.0	195	141	74
26	289	60	47	104	---	2.0	195	---	70
27	268	27	20	103	5	1.4	195	---	70
28	276	---	20	102	---	2.0	190	---	60
29	298	---	22	104	---	2.0	190	---	60
30	298	---	22	115	---	2.0	185	---	50
31	298	30	24	---	---	---	185	---	40
TOTAL	6608	---	627.3	6717	---	363.4	5701	---	663.7
		JANUARY			FEBRUARY			MARCH	
1	185	7	3.5	185	---	3.0	293	16	13
2	180	---	30	190	8	4.1	310	15	13
3	180	---	30	190	---	4.0	342	12	11
4	180	---	30	195	---	4.0	366	6	5.9
5	175	---	20	200	---	4.0	335	6	5.4
6	175	---	20	200	---	4.0	302	7	5.7
7	175	---	20	200	---	4.0	329	10	8.9
8	170	---	15	205	---	5.0	300	7	5.7
9	170	---	15	210	---	5.0	342	10	9.2
10	165	32	14	210	---	5.0	312	8	6.7
11	165	---	15	215	---	5.0	311	8	6.7
12	165	---	15	220	---	5.0	306	---	7.5
13	160	---	10	220	---	5.0	319	7	6.0
14	160	---	10	225	8	4.9	313	8	6.8
15	160	---	10	230	---	5.0	308	8	6.7
16	155	---	5.0	230	---	5.0	316	7	6.0
17	155	7	2.9	235	---	5.0	329	10	8.9
18	155	---	2.0	240	---	10	363	8	7.8
19	155	4	1.7	240	---	10	382	10	10
20	155	---	2.0	245	---	10	346	7	6.5
21	155	---	2.0	250	18	12	316	8	6.8
22	160	12	5.2	250	---	10	334	8	7.2
23	165	---	5.0	255	---	10	353	---	9.5
24	165	---	5.0	270	---	10	352	---	9.5
25	170	---	5.0	278	---	10	351	9	8.5
26	170	---	5.0	327	15	13	355	9	8.6
27	170	---	4.0	336	13	12	364	13	13
28	175	---	3.0	340	16	15	399	10	11
29	175	---	3.0	---	---	---	504	18	24
30	180	---	3.0	---	---	---	503	14	19
31	180	5	2.5	---	---	---	443	15	18
TOTAL	5205	---	313.8	6591	---	199.0	10798	---	292.5

09251000 YAMPA RIVER NEAR MAYBELL, CO--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
		APRIL			MAY			JUNE	
1	405	10	11	2590	329	2300	5450	392	5770
2	374	14	14	2810	378	2870	5390	322	4690
3	358	10	9.7	3200	392	3390	5140	287	3980
4	417	20	23	4750	945	12100	5480	280	4140
5	554	30	45	4420	350	4180	5570	322	4840
6	437	30	35	3410	252	2320	5180	332	4640
7	377	26	26	3090	287	2390	5090	266	3660
8	379	27	28	2970	259	2080	5860	371	5870
9	472	15	19	2420	196	1280	6070	343	5620
10	451	30	37	2080	147	826	5910	266	4240
11	453	21	26	1800	112	544	5120	231	3190
12	595	28	45	1720	133	618	4390	147	1740
13	681	35	64	1760	112	532	3650	119	1170
14	740	42	84	1680	105	476	3130	91	769
15	784	53	112	1590	98	421	2630	77	547
16	850	63	145	1570	98	415	2080	63	354
17	923	80	199	1640	98	434	1620	63	276
18	1190	119	382	1840	91	452	1440	56	218
19	1380	210	782	2030	105	576	1280	53	183
20	1640	490	2170	1830	108	534	1190	35	112
21	1850	---	3800	1910	112	578	1130	22	67
22	1570	---	1700	2260	133	812	1100	18	53
23	1370	119	440	2990	245	1980	1050	13	37
24	1150	98	304	4300	651	7560	971	13	34
25	1080	98	286	4090	504	5570	869	---	40
26	1480	126	503	3890	378	3970	791	---	50
27	2020	315	1720	4170	308	3470	698	---	70
28	2390	399	2570	4870	483	6350	648	64	112
29	2380	322	2070	5500	686	10200	877	101	239
30	2420	294	1920	5390	406	5910	1200	45	146
31	---	---	---	5380	420	6100	---	---	---
TOTAL	31170	---	19569.7	93950	---	91238	91004	---	56857
		JULY			AUGUST			SEPTEMBER	
1	968	---	100	230	14	8.7	36	---	5.0
2	782	---	80	209	21	12	96	---	15
3	760	---	80	209	14	7.9	73	42	8.3
4	1040	---	90	205	16	8.9	53	36	5.2
5	1060	32	92	177	8	3.8	48	27	3.5
6	874	---	80	153	5	2.1	51	30	4.1
7	684	28	52	139	7	2.6	56	26	3.9
8	535	24	35	112	6	1.8	56	18	2.7
9	452	32	39	94	11	2.8	59	39	6.2
10	402	21	23	79	10	2.1	79	27	5.8
11	391	12	13	75	6	1.2	81	24	5.2
12	410	12	13	81	7	1.5	81	18	3.9
13	453	10	12	114	48	15	84	36	8.2
14	604	419	683	92	36	8.9	84	27	6.1
15	631	458	780	205	1630	4430	86	21	4.9
16	554	115	172	430	6180	9130	86	34	7.9
17	454	49	60	161	950	413	80	23	5.0
18	399	30	32	133	144	52	69	18	3.4
19	398	28	30	122	135	44	60	30	4.9
20	497	32	43	108	84	24	54	21	3.1
21	467	32	40	89	72	17	54	21	3.1
22	400	21	23	79	54	12	54	11	1.6
23	324	28	24	66	33	5.9	55	18	2.7
24	274	24	18	60	45	7.3	50	21	2.8
25	250	26	18	62	33	5.5	42	18	2.0
26	241	---	30	63	36	6.1	38	15	1.5
27	248	11	7.4	60	33	5.3	43	15	1.7
28	354	22	21	51	39	5.4	42	---	1.0
29	475	16	21	42	48	5.4	43	13	1.5
30	352	14	13	44	63	7.5	48	8	1.0
31	285	13	10	41	---	7.0	---	---	---
TOTAL	16018	---	2734.4	3785	---	14256.7	1841	---	131.2
YEAR	279388		187246.7						

09253000 LITTLE SNAKE RIVER NEAR SLATER, CO

LOCATION.--40°59'58", long 107°08'34", in SW¼NW¼ sec.15, T.12 N., R.87 W., Routt County, Hydrologic Unit 14050003, on left bank just downstream from highway bridge at Focus Ranch, 0.2 mi (0.3 km) downstream from Spring Creek, and 12 mi (19 km) east of Slater.

DRAINAGE AREA.--285 mi^2 (738 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1942 to September 1947, October 1950 to current year.

REVISED REOCRDS.--WSP 1733: 1960.

GAGE.--Water-stage recorder. Datum of gage is 6,831.00 ft (2,082.089 m), National Geodetic Vertical Datum of 1929.

REMARKS.--Records good except those for winter period, which are poor. Diversions for irrigation of about 2,000 acres (8.09 km^2) above station.

AVERAGE DISCHARGE.--36 years, 225 ft^3/s (6.372 m^3/s), 163,000 acre-ft/yr (201 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,180 ft^3/s (118 m^3/s) Apr. 25, 1974, gage height, 8.95 ft (2.728 m), from recorded range in stage; minimum daily, 8.6 ft^3/s (0.24 m^3/s) Sept. 10, 1944.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,650 ft^3/s (46.7 m^3/s) at 0200 May 3, gage height, 6.44 ft (1.963 m), only peak above base of 1,600 ft^3/s (45 m^3/s); minimum daily, 9.4 ft^3/s (0.27 m^3/s) Sept. 20.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25	33	37	34	22	30	34	550	1120	85	28	14
2	26	33	39	33	20	29	36	653	1030	96	26	13
3	30	33	41	32	19	29	38	1260	1100	172	25	17
4	33	34	41	31	17	29	39	944	1180	130	22	18
5	35	31	40	30	16	30	38	705	1010	90	19	15
6	40	33	38	29	16	31	40	646	968	74	17	24
7	42	39	36	29	18	32	41	592	1020	65	16	23
8	43	45	34	28	19	33	44	485	992	60	16	19
9	45	33	32	28	20	34	57	419	952	56	17	16
10	49	38	32	27	16	33	118	365	788	71	19	18
11	51	35	33	27	17	33	129	376	735	59	19	22
12	55	41	34	26	18	33	145	355	627	56	20	18
13	68	51	35	26	19	32	150	355	518	58	27	16
14	82	41	35	26	20	32	164	360	440	60	26	16
15	73	34	36	26	21	32	202	345	378	50	25	14
16	65	29	36	26	22	32	262	355	325	44	26	13
17	49	25	37	26	23	32	350	461	288	43	26	12
18	45	26	37	26	24	32	422	420	259	48	18	11
19	48	27	36	26	25	32	444	360	239	46	15	9.7
20	47	29	35	27	26	32	393	403	219	41	14	9.4
21	49	30	36	27	27	33	327	544	195	36	13	11
22	53	30	37	27	27	35	270	944	171	31	15	14
23	43	30	37	27	28	34	221	1180	152	29	14	14
24	63	29	38	27	29	35	331	968	136	28	12	13
25	33	28	39	26	29	36	551	912	117	39	14	17
26	36	28	40	26	30	36	603	1010	105	52	17	21
27	40	29	40	25	30	36	585	1190	100	82	17	20
28	28	30	39	25	30	35	544	1150	131	49	15	18
29	24	32	38	24	---	35	535	1130	159	38	14	17
30	32	35	37	24	---	35	559	1090	99	33	14	17
31	32	---	36	23	---	34	---	1200	---	31	16	---
TOTAL	1384	991	1141	844	628	1016	7672	21727	15553	1852	582	480.1
MEAN	44.6	33.0	36.8	27.2	22.4	32.8	256	701	518	59.7	18.8	16.0
MAX	82	51	41	34	30	36	603	1260	1180	172	28	24
MIN	24	25	32	23	16	29	34	345	99	28	12	9.4
AC-FT	2750	1970	2260	1670	1250	2020	15220	43100	30850	3670	1150	952

CAL YR 1980 TOTAL 90421.0 MEAN 247 MAX 2080 MIN 16 AC-FT 179400
WTR YR 1981 TOTAL 53870.1 MEAN 148 MAX 1260 MIN 9.4 AC-FT 106900

09253000 LITTLE SNAKE RIVER NEAR SLATER, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1977 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	HARD-NESS (MG/L AS CACO3)
OCT								
08...	1500	15	210	208	7.5	13.5	9.1	75
NOV								
18...	1100	--	--	254	--	--	--	95
JAN								
14...	1130	--	225	228	7.5	.5	13.1	82
FEB								
25...	1430	--	165	202	8.4	.0	--	82
MAR								
12...	1200	--	180	210	--	.0	--	76
17...	1500	39	190	--	--	.5	9.8	--
APR								
23...	1430	197	115	109	7.9	9.5	--	54
MAY								
14...	1430	311	88	84	--	9.5	--	42
JUN								
11...	1100	683	65	57	7.2	10.0	--	29
JUL								
15...	1000	50	147	155	7.8	16.0	--	49
AUG								
19...	1300	15	194	176	--	20.5	--	59
SEP								
23...	1445	15	207	226	--	16.0	--	72

DATE	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE FET-FLD (MG/L AS HCO3)	CAR-BONATE FET-FLD (MG/L AS CO3)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)
OCT									
08...	18	7.3	15	.8	1.8	98	3	85	15
NOV									
18...	32	3.6	16	.7	2.2	130	0	110	21
JAN									
14...	16	9.8	18	.9	1.5	110	0	90	20
FEB									
25...	23	5.9	12	.6	1.9	98	6	90	11
MAR									
12...	23	4.4	11	.6	1.8	100	0	82	6.6
17...	--	--	--	--	--	--	--	--	--
APR									
23...	14	4.7	2.5	.1	1.6	55	0	45	9.9
MAY									
14...	12	3.2	4.5	.3	.8	41	0	34	8.2
JUN									
11...	6.7	3.0	2.0	.2	.6	27	0	22	9.9
JUL									
15...	13	3.8	7.0	.4	1.2	64	0	52	4.9
AUG									
19...	18	3.3	12	.7	1.7	85	3	75	8.2
SEP									
23...	21	4.7	12	.6	1.1	98	0	80	13

09253000 LITTLE SNAKE RIVER NEAR SLATER, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)
OCT								
08...	5.2	.3	12	130	.18	5.3	.00	.010
NOV								
18...	5.3	.3	19	160	.22	11.2	.65	.010
JAN								
14...	5.1	.4	22	147	.20	10.3	.01	.010
FEB								
25...	3.9	.3	.0	113	.15	8.9	.06	.020
MAR								
12...	5.1	.4	19	120	.16	10.7	.05	.030
17...	--	--	--	--	--	--	--	--
APR								
23...	5.2	.3	13	78	.11	41.5	.09	.830
MAY								
14...	5.5	.2	5.5	60	.08	50.4	.15	.150
JUN								
11...	4.2	.3	9.6	50	.07	92.2	.02	.020
JUL								
15...	2.7	.2	13	77	.10	10.4	.01	.010
AUG								
19...	4.5	.0	8.7	100	.14	4.1	.00	.020
SEP								
23...	4.3	.1	14	120	.16	5.0	.04	.010

DATE	TIME	2,4-D, TOTAL (UG/L)	2,4-D, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	2,4,5-T TOTAL (UG/L)	2,4,5-T TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	SILVEX, TOTAL (UG/L)	SILVEX, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)
JUN							
11...	1100	.00	0	.00	0	.00	0
JUL							
15...	1000	.00	0	.00	0	.00	0
SEP							
23...	1445	.00	0	.00	0	.00	0

09255000 SLATER FORK NEAR SLATER, CO

LOCATION.--Lat 40°58'57", long 107°22'56", in SW¼NE¼ sec.21, T.12 N., R.89 W., Moffat County, Hydrologic Unit 14050003, on right bank 15 ft (5 m) downstream from highway bridge, 1.0 mi (1.6 km) upstream from mouth, and 1.5 mi (2.4 km) south of Slater.

DRAINAGE AREA.--161 mi^2 (417 km^2).

PERIOD OF RECORD.--May to October, December 1910, March to October 1911, and April to May 1912 (published as Slater Creek), July 1931 to current year. Monthly discharge only for some periods, published in WSP 1313.

REVISED RECORDS.--WSP 618: 1910-11. WSP 764: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 6,600 ft (2,012 m), from river-profile map. May 28, 1910, to May 25, 1912, nonrecording gage at site 1.5 mi (2.4 km) upstream at different datum. July 9, 1931, to May 6, 1932, nonrecording gage at site 0.2 mi (0.3 km) downstream at different datum.

REMARKS.--Records fair except those for winter period and those for periods of no gage-height record Oct. 2-8, Jan. 7 to Mar. 12, which are fair. Diversions for irrigation of about 500 acres (2.02 km^2) above station.

AVERAGE DISCHARGE.--50 years (water years 1932-81), 73.7 ft^3/s (2.087 m^3/s), 53,400 acre-ft/yr (65.8 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,860 ft^3/s (52.7 m^3/s) May 8, 1974, gage height, 10.75 ft (3.277 m), from peak indicator; maximum gage height, 10.98 ft (3.347 m) May 28, 1979, from floodmark; no flow Aug. 2-10, 1934, Aug. 18, 25-27, 1936, Aug. 29 to Sept. 3, 1954, Aug. 3, 4, 15, 16, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 430 ft^3/s (12 m^3/s) and maximum (*):

		Discharge		Gage height				Discharge		Gage height	
Date	Time	(ft^3/s)	(m^3/s)	(ft)	(m)	Date	Time	(ft^3/s)	(m^3/s)	(ft)	(m)
May 23	0600	*516	14.6	6.91	2.106	May 27	2400	507	14.4	6.86	2.091

Minimum daily discharge, 0.52 ft^3/s (0.015 m^3/s) Aug. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.9	18	14	14	10	14	43	150	248	23	4.4	1.9
2	8.7	17	14	14	9.0	14	55	144	211	24	4.2	3.0
3	8.5	17	14	15	8.2	14	72	308	220	49	3.6	4.7
4	8.3	18	15	13	7.7	15	82	265	283	44	2.6	5.1
5	8.3	17	15	15	7.5	16	92	173	205	34	2.4	5.8
6	8.2	17	16	14	7.8	16	106	146	189	22	2.4	7.1
7	8.1	17	15	14	8.2	17	122	140	224	17	3.2	3.0
8	8.1	17	13	14	8.6	18	74	111	217	14	2.4	4.0
9	8.3	17	11	14	8.6	20	71	88	215	14	3.0	4.4
10	8.3	17	11	14	7.5	21	105	71	179	20	3.6	3.0
11	8.7	17	12	14	7.9	21	137	73	151	15	4.7	5.1
12	8.8	16	12	14	8.3	21	139	80	126	14	5.1	5.8
13	11	14	13	14	8.6	21	153	83	113	13	7.6	3.6
14	16	12	13	14	9.0	21	161	93	92	13	6.9	5.5
15	17	11	14	13	9.4	21	196	92	80	12	5.1	5.5
16	18	11	14	13	9.8	19	146	91	64	9.5	4.0	6.0
17	19	10	15	13	10	20	157	103	51	8.8	3.8	4.9
18	18	11	15	13	10	18	162	117	44	9.5	3.4	6.9
19	17	12	15	13	11	17	184	94	36	10	2.1	9.5
20	17	12	14	14	11	19	182	92	38	10	1.6	12
21	17	13	14	14	11	20	128	138	36	7.4	1.9	15
22	17	14	16	14	11	19	102	301	28	5.1	2.2	15
23	16	13	16	14	12	20	80	465	24	4.2	2.1	5.3
24	12	13	15	14	12	22	109	336	22	4.7	1.8	4.0
25	13	15	16	14	12	22	164	319	18	6.2	2.1	3.8
26	15	13	16	13	13	25	167	340	16	8.3	1.8	8.5
27	15	13	17	13	13	30	159	422	17	11	1.4	8.5
28	13	12	17	13	13	31	142	387	45	9.5	1.4	8.0
29	13	13	15	13	---	30	133	293	44	6.2	.70	8.0
30	16	14	15	12	---	34	138	261	28	4.4	.52	14
31	19	---	15	11	---	34	---	263	---	5.5	.61	---
TOTAL	400.2	431	447	421	275.1	650	3761	6039	3264	448.3	92.63	196.9
MEAN	12.9	14.4	14.4	13.6	9.83	21.0	125	195	109	14.5	2.99	6.56
MAX	19	18	17	15	13	34	196	465	283	49	7.6	15
MIN	8.1	10	11	11	7.5	14	43	71	16	4.2	.52	1.9
AC-FT	794	855	887	835	546	1290	7460	11980	6470	889	184	391

CAL YR 1980 TOTAL 36768.90 MEAN 100 MAX 1110 MIN 3.2 AC-FT 72930
WTR YR 1981 TOTAL 16426.13 MEAN 45.0 MAX 465 MIN .52 AC-FT 32580

09257000 LITTLE SNAKE RIVER NEAR DIXON, WY

LOCATION.--Lat 41°01'42", long 107°32'55", in SE¼NW¼ sec.8, T.12 N., R.90 W., Carbon County, WY, Hydrologic Unit 14050003, on left bank 200 ft (61 m) upstream from highway bridge, 1,000 ft (305 m) upstream from Willow Creek, and 0.8 mi (1.3 km) west of Dixon.

DRAINAGE AREA.--988 mi² (2,559 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1910 to September 1923, March 1938 to current year (no winter records since 1971). Monthly discharge only for some periods, published in WSP 1313.

REVISED RECORDS.--WSP 1243: 1920(M).

GAGE.--Water-stage recorder. Datum of gage is 6,331.22 ft (1,929.756 m), National Geodetic Vertical Datum of 1929. May 27, 1910, to Sept. 30, 1923, nonrecording gage on highway bridge 200 ft (61 m) downstream at datum 2.98 ft (0.908 m) higher. Mar. 15, 1938, to Sept. 30, 1957, water-stage recorder at site 225 ft (69 m) downstream at datum 2.98 ft (0.908 m) higher; Oct. 1, 1957, to June 6, 1968, at site 850 ft (259 m) downstream at present datum; and June 7 to Sept. 30, 1968, at site 225 ft (69 m) downstream at present datum.

REMARKS.--Records good except those for periods of no gage-height record, Mar. 16 to Apr. 22, May 12, 13, July 25-29, which are poor. Diversions for irrigation of about 9,500 acres (38.4 km²) above station. One diversion above station for irrigation of about 3,000 acres (12.1 km²) below. Transbasin diversions above station.

AVERAGE DISCHARGE.--46 years (water years 1911-23, 1939-71), 514 ft³/s (14.56 m³/s), 372,400 acre-ft/yr (459 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge observed, 9,600 ft³/s (272 m³/s) May 26, 1920, gage height, 11.6 ft (3.54 m), present datum; maximum gage height, 11.74 ft (3.578 m) May 30, 1971; no flow Sept. 19, 20, 22, 1977, Aug. 7, 17, 18, 27-29, 1981.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,900 ft³/s (110 m³/s) at 0630 May 23, gage height, 9.34 ft (2.847 m); only peak above base of 3,200 ft³/s (90.6 m³/s); no flow Aug. 7, 17, 18, 27-29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1						---	198	804	2250	3.0	.22	16
2						---	222	834	2070	4.7	.22	20
3						---	264	1850	1980	64	.46	11
4						---	285	1840	2130	79	.22	7.8
5						---	303	1340	1840	41	.11	15
6						---	333	1030	1680	12	.22	16
7						---	367	1300	1750	4.7	.00	25
8						---	334	885	1650	2.5	.11	33
9						---	308	726	1610	2.8	.22	11
10						---	485	634	1340	2.8	.33	2.5
11						---	552	595	1160	2.8	.22	1.8
12						---	575	604	935	2.5	.33	1.3
13						125	600	614	745	2.8	.22	1.0
14						138	626	589	564	2.2	.22	.79
15						155	706	564	497	1.8	.11	2.0
16						133	714	551	364	2.0	.11	16
17						133	775	789	299	3.0	.00	13
18						128	793	864	248	3.2	.00	8.3
19						126	788	674	201	2.8	.11	8.3
20						131	792	661	184	2.8	.22	8.3
21						136	747	995	175	3.2	.33	7.3
22						138	673	2020	127	2.8	.61	7.3
23						138	497	3250	97	2.5	.46	7.3
24						147	492	2330	59	3.0	.33	6.0
25						149	766	2090	38	1.7	.22	5.0
26						157	914	2090	18	1.1	.22	6.8
27						173	935	2490	6.0	.67	.00	14
28						166	828	2610	22	.44	.00	12
29						163	774	2310	70	.31	.00	6.4
30						170	819	2190	21	.22	6.8	7.8
31						173	---	2250	---	.22	16	---
TOTAL						---	17465	42373	24130.0	258.56	28.62	297.99
MEAN						---	582	1367	804	8.34	.92	9.93
MAX						---	935	3250	2250	79	16	33
MIN						---	198	551	6.0	.22	.00	.79
AC-FT						---	34640	84050	47860	513	57	591

09257000 LITTLE SNAKE RIVER NEAR DIXON, WY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1975 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)
MAR				
13...	0950	126	11	3.7
APR				
23...	1200	494	40	53
MAY				
14...	1100	686	54	100
JUN				
12...	1020	1010	82	224
JUL				
16...	0915	1.5	4	.02
AUG				
19...	1125	.07	8	.00
SEP				
21...	1250	--	15	--

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	BED MAT. SIEVE DIAM. % FINER THAN .062 MM	BED MAT. SIEVE DIAM. % FINER THAN .125 MM	BED MAT. SIEVE DIAM. % FINER THAN .250 MM	BED MAT. SIEVE DIAM. % FINER THAN .500 MM	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM
APR										
23...	1200	494	1	5	16	78	95	97	98	100

09258000 WILLOW CREEK NEAR DIXON, WY

LOCATION.--Lat 40°54'56", long 107°31'16", on line between secs.8 and 17, T.11 N., R.90 W., Moffat County, Colo., Hydrologic Unit 14050003, on right bank 6.2 mi (10.0 km) south of Colorado-Wyoming State line, 8.0 mi (12.9 km) upstream from mouth, and 8.3 mi (13.4 km) south of Dixon.

DRAINAGE AREA.--24 mi^2 (62 km^2), approximately.

PERIOD OF RECORD.--October 1953 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 6,700 ft (2,042 m), from topographic map.

REMARKS.--Records fair except those for winter period, which are poor. One small ditch diverts water above station for irrigation. Regulation by Elk Lake, capacity, 400 acre-ft (493,000 m^3).

AVERAGE DISCHARGE.--28 years, 9.61 ft^3/s (0.272 m^3/s), 6,960 acre-ft/yr (8.58 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 319 ft^3/s (9.03 m^3/s) Apr. 25, 1974, gage height, 5.42 ft (1.652 m), from rating curve extended above 160 ft^3/s (4.5 m^3/s); no flow Sept. 17-19, 1955, many days July through September 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 70 ft^3/s (2.0 m^3/s); and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
May 22	2400	*301	8.52	5.39	1.643
May 26	1700	94	2.66	3.95	1.204
June 9	0100	74	2.10	3.76	1.146
June 28	1700	128	3.62	4.21	1.283

Minimum daily discharge, 0.14 ft^3/s (0.004 m^3/s) July 24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.4	2.2	1.7	1.7	1.0	1.5	2.1	7.7	42	7.3	4.2	1.1
2	1.4	2.3	1.8	1.7	.94	1.5	3.4	7.9	39	8.9	3.3	1.0
3	1.6	2.6	1.8	1.7	.86	1.6	4.7	9.3	47	15	6.9	1.6
4	1.6	2.7	1.8	1.6	.82	1.7	2.6	11	45	11	7.1	.98
5	1.6	2.7	1.7	1.6	.80	1.8	2.7	12	41	7.5	6.9	.90
6	1.6	2.7	1.5	1.6	.84	1.9	3.0	12	43	6.2	6.6	2.6
7	1.6	3.1	1.4	1.5	.90	2.0	3.9	12	49	5.4	6.6	2.0
8	1.6	3.4	1.3	1.5	.97	2.2	3.2	12	53	5.1	6.2	1.4
9	1.6	2.9	1.2	1.5	.98	2.7	9.0	11	60	4.7	6.2	1.2
10	1.8	2.9	1.3	1.5	.80	2.7	12	10	50	5.2	6.2	1.4
11	1.8	2.7	1.3	1.5	.84	2.8	12	9.8	40	4.3	6.2	1.7
12	1.7	2.5	1.4	1.5	.90	2.5	11	9.5	34	4.0	6.0	1.0
13	3.6	2.1	1.4	1.5	.96	2.7	9.8	11	33	4.0	7.1	.91
14	4.9	1.7	1.4	1.4	1.0	2.1	9.7	8.8	26	1.8	7.3	1.0
15	4.7	1.3	1.5	1.4	1.0	2.3	13	7.7	19	1.1	6.9	1.1
16	3.8	1.1	1.7	1.4	1.1	2.2	15	19	15	.42	6.2	1.0
17	3.2	1.0	1.7	1.4	1.1	2.4	15	21	14	1.0	4.7	1.0
18	3.6	1.1	1.7	1.4	1.2	2.2	14	12	14	1.0	1.1	.76
19	3.7	1.2	1.5	1.4	1.2	2.7	16	8.3	13	.70	.91	.79
20	3.4	1.4	1.4	1.4	1.2	2.3	14	12	14	.70	.84	.72
21	3.3	1.5	1.4	1.5	1.2	2.3	9.1	30	13	.56	1.1	.85
22	3.6	1.5	1.5	1.5	1.2	2.4	7.2	101	12	.56	1.2	1.4
23	2.5	1.4	1.6	1.5	1.3	2.5	5.7	123	10	.28	1.0	1.3
24	2.2	1.3	1.7	1.5	1.3	2.8	7.4	45	9.6	.14	.96	1.0
25	2.8	1.3	1.7	1.4	1.3	2.3	7.2	35	11	.70	1.7	1.2
26	2.9	1.3	1.8	1.4	1.3	3.0	7.2	49	9.9	1.2	1.1	1.8
27	2.8	1.4	1.8	1.4	1.4	4.6	7.2	59	9.1	5.4	.92	1.2
28	1.9	1.5	1.8	1.4	1.4	3.1	7.0	48	22	4.7	.95	1.6
29	2.5	1.6	1.8	1.4	---	2.4	6.9	37	9.4	4.0	.79	1.3
30	2.5	1.7	1.8	1.3	---	2.2	7.1	36	9.1	3.8	.85	1.3
31	2.5	---	1.8	1.1	---	2.3	---	43	---	4.7	.95	---
TOTAL	79.7	58.1	49.2	45.6	29.81	73.7	248.1	830.0	806.1	121.36	118.97	37.11
MEAN	2.57	1.94	1.59	1.47	1.06	2.38	8.27	26.8	26.9	3.91	3.84	1.24
MAX	4.9	3.4	1.8	1.7	1.4	4.6	16	123	60	15	7.3	2.6
MIN	1.4	1.0	1.2	1.1	.80	1.5	2.1	7.7	9.1	.14	.79	.72
AC-FT	158	115	98	90	59	146	492	1650	1600	241	236	74

CAL YR 1980 TOTAL 4004.39 MEAN 10.9 MAX 115 MIN .86 AC-FT 7940
WTR YR 1981 TOTAL 2497.75 MEAN 6.84 MAX 123 MIN .14 AC-FT 4950

09259050 LITTLE SNAKE RIVER BELOW BAGGS, WY

LOCATION.--Lat 41°01'43", long 107°41'14", in SE¼NW¼NW¼ sec.7, T.12 N., R.92 W., Carbon County, Hydrologic Unit 14050003, 0.8 mi (1.3 km) downstream from Ledford Slough, 1.5 mi (2.4 km) southwest of Baggs, and 3.5 mi (5.6 km) downstream from bridge on State Highway 789 in Baggs.

PERIOD OF RECORD.--October 1980 to September 1981.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	HARD-NESS (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)
OCT 08...	1230	5.0	545	551	7.8	13.5	--	8.2	--	200	36
NOV 18...	1400	--	--	462	--	--	--	--	--	190	50
JAN 14...	1500	--	420	418	7.7	.5	--	11.5	--	170	42
FEB 25...	1030	130	380	446	7.7	.5	8.0	--	65	180	44
MAR 12...	1730	162	400	453	8.3	5.0	51	11.4	30	170	48
APR 23...	0800	558	245	226	8.0	6.0	30	10.1	21	97	27
MAY 14...	0745	608	205	237	8.2	7.0	20	9.0	22	95	24
JUN 11...	1640	1130	125	115	7.4	17.5	10	8.0	42	64	15
JUL 15...	1530	41	682	623	8.1	27.0	190	9.5	K940	190	51
AUG 19...	0900	2.0	855	797	8.3	16.0	15	7.4	160	270	56
SEP 23...	1000	1.7	640	628	8.2	14.0	20	9.3	32	220	54

DATE	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE FET-FLD (MG/L AS HCO3)	CAR-BONATE FET-FLD (MG/L AS CO3)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)
OCT 08...	26	45	1.4	3.2	240	0	200	73	9.9	.5	13
NOV 18...	16	26	.8	2.5	210	0	170	59	4.9	.4	14
JAN 14...	16	24	.8	2.5	210	0	170	48	5.3	.4	22
FEB 25...	18	29	.9	2.5	200	6	170	57	7.0	.4	.0
MAR 12...	12	29	1.0	2.4	190	0	160	58	7.5	.6	13
APR 23...	8.0	8.0	.3	1.8	100	0	82	21	6.0	.4	12
MAY 14...	8.9	14	.6	.8	100	0	82	28	11	.2	6.3
JUN 11...	6.5	5.0	.3	1.1	50	0	41	9.9	15	.2	8.7
JUL 15...	16	55	1.7	4.0	230	0	190	74	20	.6	8.7
AUG 19...	31	93	2.5	.0	320	6	270	160	19	.4	9.9
SEP 23...	21	54	1.6	3.4	280	0	230	85	11	1.1	7.8

K BASED ON NON-IDEAL COLONY COUNT.

09259050 LITTLE SNAKE RIVER BELOW BAGGS, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NITRITE TOTAL (MG/L AS N)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS N)
OCT											
08...	330	.45	4.5	--	--	.11	.010	--	--	--	--
NOV											
18...	270	.37	--	--	--	.14	.010	--	--	--	--
JAN											
14...	260	.35	--	--	--	.01	.080	--	--	--	--
FEB											
25...	262	.36	92.0	--	.00	.00	.010	.040	.47	.51	.51
MAR											
12...	260	.35	114	--	.00	.16	.030	.020	.50	.52	.52
APR											
23...	135	.18	203	--	.13	.10	.150	.120	.82	.94	1.1
MAY											
14...	143	.19	235	--	.01	.17	.190	.090	.87	.96	.97
JUN											
11...	87	.12	265	.010	.00	.17	.060	.060	.53	.59	.59
JUL											
15...	350	.48	38.7	--	.06	.22	.430	.330	1.1	1.40	1.5
AUG											
19...	540	.73	2.9	--	.11	.07	.100	.140	.86	1.00	1.1
SEP											
23...	380	.52	1.7	--	<.10	.00	.100	.140	.64	.78	--

DATE	TIME	2,4-D, TOTAL (UG/L)	2,4-D, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	2, 4-DP TOTAL (UG/L)	2,4-DP, IN BOTTOM MAT. (UG/KG)	2,4,5-T TOTAL (UG/L)	2,4,5-T TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	SILVEX, TOTAL (UG/L)	SILVEX, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)
JUN									
11...	1640	.00	0	.00	.00	.00	0	.00	0
JUL									
15...	1530	.01	0	.00	.00	.00	0	.00	0
SEP									
23...	1000	.05	0	.00	.00	.00	0	.00	0

09260000 LITTLE SNAKE RIVER NEAR LILY, CO

LOCATION.--Lat 40°32'50", long 108°25'25", in NW¼NE¼ sec.20, T.7 N., R.98 W., Moffat County, Hydrologic Unit 14050003, on left bank 170 ft (52 m) downstream from highway bridge, 6.0 mi (9.7 km) north of Lily, and 10 mi (16 km) upstream from mouth.

DRAINAGE AREA.--3,730 mi^2 (9,660 km^2), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June to August 1904 (published as "near Maybell"), October 1921 to current year. Monthly discharge only for some periods, published in WSP 1313.

REVISED RECORDS.--WSP 1713: 1959.

GAGE.--Water-stage recorder. Altitude of gage is 5,685 ft (1,733 m), from river-profile map. June 9 to Aug. 14, 1904, nonrecording gage, and May 5, 1922, to Nov. 30, 1935, water-stage recorder, at site 300 ft (91 m) upstream at different datums.

REMARKS.--Records fair except those for winter period, which are poor. Diversions for irrigation of about 21,000 acres (85.0 km^2) above station.

AVERAGE DISCHARGE.--60 years, 569 ft^3/s (16.11 m^3/s), 412,200 acre-ft/yr (508 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 14,200 ft^3/s (402 m^3/s) May 27, 1926, gage height, 10.5 ft (3.20 m), site and datum then in use, from rating curve extended above 3,600 ft^3/s (102 m^3/s); maximum gage height, 11.1 ft (3.38 m), Feb. 13, 1962, from floodmark (backwater from ice); no flow at times in most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,560 ft^3/s (129 m^3/s) at 1230 May 24, gage height, 5.62 ft (1.713 m), only peak above base of 3,500 ft^3/s (99 m^3/s); minimum daily, 0.06 ft^3/s (0.002 m^3/s) Sept. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	28	163	94	86	80	260	228	842	2330	67	62	3.6
2	26	155	94	86	82	273	223	852	2450	103	44	3.6
3	23	178	94	86	84	271	224	937	2240	133	26	3.6
4	22	176	94	84	86	279	212	2120	2060	98	22	3.6
5	23	174	94	84	88	271	241	2300	2180	205	22	3.6
6	25	175	94	84	90	262	275	1720	2060	195	21	8.2
7	26	173	94	82	92	239	248	1300	1840	170	15	8.8
8	28	174	94	82	94	213	236	1230	1790	129	15	5.5
9	30	169	94	80	100	249	236	1130	1820	99	13	5.1
10	31	171	94	80	100	258	331	955	1720	67	8.0	5.1
11	29	175	94	80	110	235	302	871	1660	46	16	4.4
12	29	197	94	80	110	226	350	809	1420	58	100	9.9
13	30	204	94	78	120	231	678	767	1180	42	112	10
14	39	193	94	78	120	233	671	802	1130	38	8.7	13
15	45	188	94	78	130	252	696	760	973	36	9.5	10
16	58	174	94	76	140	240	649	787	804	56	8.2	8.2
17	80	176	94	76	140	248	674	806	708	61	6.8	6.0
18	100	165	92	74	150	243	724	870	573	82	5.1	4.8
19	130	146	92	74	160	255	912	1230	461	56	4.0	2.2
20	160	145	90	74	170	271	1050	1080	388	34	4.0	1.5
21	200	120	90	74	180	245	1100	941	335	30	4.8	.96
22	220	110	90	74	190	209	1020	958	297	25	6.0	.54
23	220	100	90	74	200	234	869	1450	277	26	5.1	.32
24	220	96	88	74	210	229	713	3690	245	20	4.8	.20
25	210	94	88	74	220	216	610	2990	204	24	4.8	.15
26	198	94	88	74	230	218	611	2430	176	18	5.1	.10
27	180	94	88	76	240	234	892	2320	139	35	4.4	.09
28	190	94	88	76	250	225	1060	2770	117	43	4.4	.08
29	190	94	86	76	---	247	1040	3150	206	55	4.4	.07
30	191	94	86	76	---	296	915	2660	72	33	5.5	.06
31	192	---	86	78	---	272	---	2470	---	42	4.4	---
TOTAL	3173	4461	2840	2428	3966	7634	17990	47997	31855	2126	576.0	123.27
MEAN	102	149	91.6	78.3	142	246	600	1548	1062	68.6	18.6	4.11
MAX	220	204	94	86	250	296	1100	3690	2450	205	112	13
MIN	22	94	86	74	80	209	212	760	72	18	4.0	.06
AC-FT	6290	8850	5630	4820	7870	15140	35680	95200	63180	4220	1140	245

CAL YR 1980 TOTAL 282549.70 MEAN 772 MAX 5930 MIN 1.6 AC-FT 560400
WTR YR 1981 TOTAL 125169.27 MEAN 343 MAX 3690 MIN .06 AC-FT 248300

09260000 LITTLE SNAKE RIVER NEAR LILY, CO--Continued
(National Stream-Quality Accounting Network Station)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--September 1969 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: July 1975 to current year.
WATER TEMPERATURES: July 1975 to current year.

INSTRUMENTATION:--Water-quality monitor since July 1975.

EXTREMES FOR PERIOD OF RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 2,020 micromhos Oct. 11, 1977; minimum, 122 micromhos June 20, 1978.
WATER TEMPERATURES: Maximum, 32.0°C Aug. 6, 1981; minimum, freezing point on many days during winter months each year.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, not determined; minimum, not determined.
WATER TEMPERATURES: Maximum, 32.0°C Aug. 6; minimum, 0.0°C on many days during November to February.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./100 ML)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD-NESS (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)
OCT												
02...	1530	27	1150	1100	8.1	10.0	3.6	7.2	K48	K22	260	69
NOV												
20...	1140	140	810	--	8.0	.0	--	9.3	K6	K54	--	--
DEC												
17...	1230	95	675	--	8.0	.0	--	10.8	K4	K8	--	--
JAN												
19...	1230	75	750	719	7.9	.0	1.3	--	K4	K4	240	63
FEB												
23...	1330	197	600	616	8.3	.5	60	11.7	<2	K21	150	42
APR												
08...	1050	230	560	567	8.2	8.0	110	10.0	<2	52	180	48
23...	1200	1130	230	237	7.9	12.5	340	7.4	K110	450	87	24
MAY												
19...	1130	1280	410	414	7.8	15.5	800	8.0	880	3300	98	27
JUN												
30...	1030	--	625	637	8.1	20.0	110	6.9	270	2300	180	54
JUL												
27...	1300	23	1030	998	8.3	25.0	37	7.0	36	100	260	71
AUG												
18...	1300	5.2	1250	1230	8.2	28.0	44	6.8	--	--	310	89
SEP												
10...	1100	4.0	1200	1230	8.3	14.0	40	8.6	610	340	300	82

DATE	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)
OCT												
02...	22	150	4.0	6.4	200	310	57	.3	9.8	699	745	.95
NOV												
20...	--	--	--	--	--	--	--	--	--	--	--	--
DEC												
17...	--	--	--	--	--	--	--	--	--	--	--	--
JAN												
19...	19	75	2.1	2.1	220	160	23	.4	17	486	492	.66
FEB												
23...	11	70	2.5	1.9	140	120	33	.2	13	371	375	.50
APR												
08...	15	50	1.6	1.9	160	110	13	.3	14	348	349	.47
23...	6.5	16	.7	.9	80	34	3.8	.2	12	158	148	.21
MAY												
19...	7.4	48	2.1	1.7	94	79	17	.2	13	257	250	.35
JUN												
30...	11	66	2.1	3.4	160	130	21	.3	15	406	397	.55
JUL												
27...	20	130	3.5	4.8	210	250	41	.3	14	649	658	.88
AUG												
18...	22	160	4.2	4.8	220	360	57	.3	18	821	844	1.1
SEP												
10...	22	160	4.3	4.9	180	380	60	.3	13	825	831	1.1

K BASED ON NON-IDEAL COLONY COUNT.

09260000 LITTLE SNAKE RIVER NEAR LILY, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN DIS- SOLVED (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)
OCT											
02...	51.0	.00	.00	.000	.000	.43	.49	.43	.49	.43	.49
NOV											
20...	--	--	--	--	--	--	--	--	--	--	--
DEC											
17...	--	--	.17	.010	.040	.76	.70	.55	.71	.59	--
JAN											
19...	98.4	.11	.09	.050	.070	.78	.95	.62	1.00	.69	1.1
FEB											
23...	197	.00	.00	.000	.070	.36	3.6	.29	3.60	.36	3.6
APR											
08...	216	.05	.09	.050	.050	.66	1.8	.52	1.80	.57	1.9
23...	482	.15	.55	.090	.100	1.7	1.1	1.0	1.20	1.1	1.4
MAY											
19...	888	.06	.00	.280	.070	.72	1.5	.65	1.80	.72	1.9
JUN											
30...	--	.04	.04	.040	.060	.76	1.1	.66	1.10	.72	1.1
JUL											
27...	40.3	.09	.09	.180	.110	.89	.58	.69	.76	.80	.85
AUG											
18...	11.5	<.09	.12	<.060	.070	.82	--	.63	.70	.70	--
SEP											
10...	8.9	<.09	.03	.080	.100	.60	.77	.47	.85	.57	--

DATE	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	CARBON, ORGANIC SUS- PENDED TOTAL (MG/L AS C)	PHYTO- PLANK- TON, TOTAL (CELLS PER ML)	PERI- PHYTON BIOMASS ASH WEIGHT G/SQ M	PERI- PHYTON BIOMASS TOTAL DRY WEIGHT G/SQ M	BIOMASS CHLORO- PHYLL RATIO PERI- PHYTON (UNITS)	CHLOR-A PERI- PHYTON CHROMO- GRAPHIC FLUOROM (MG/M2)	CHLOR-B PERI- PHYTON CHROMO- GRAPHIC FLUOROM (MG/M2)
OCT											
02...	.030	.000	4.9	--	--	9200	.472	.945	965	.490	.000
NOV											
20...	--	--	--	--	--	620	--	--	--	--	--
DEC											
17...	.090	.050	5.6	--	--	--	--	--	--	--	--
JAN											
19...	.040	.030	7.5	--	--	--	--	--	--	--	--
FEB											
23...	.130	.040	5.1	--	--	--	--	--	--	--	--
APR											
08...	.170	.030	--	--	--	1500	--	--	--	--	--
23...	.600	.040	14	--	--	--	--	--	--	--	--
MAY											
19...	.260	.080	9.0	--	--	1200	--	--	--	--	--
JUN											
30...	.570	.020	--	13	1.0	8800	--	--	--	--	--
JUL											
27...	.080	<.010	5.8	--	--	22000	--	--	--	--	--
AUG											
18...	.110	.010	--	5.3	.2	10000	--	--	--	--	--
SEP											
10...	.060	.020	5.8	--	--	1400	--	--	--	--	--

09260000 LITTLE SNAKE RIVER NEAR LILY, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS-SOLVED (UG/L AS AS)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA)	BARIUM, DIS-SOLVED (UG/L AS BA)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COBALT, TOTAL RECOV-ERABLE (UG/L AS CO)	COBALT, DIS-SOLVED (UG/L AS CO)
OCT 02...	--	--	--	--	--	--	--	--	--	--
APR 08...	2	3	100	50	0	<1	20	10	3	<3
JUN 30...	6	2	200	200	3	<1	30	10	4	<3
AUG 18...	3	2	100	110	0	<1	10	0	1	<3

DATE	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB)	LEAD, DIS-SOLVED (UG/L AS PB)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG)
OCT 02...	--	--	--	--	--	--	--	--	--
APR 08...	7	2	4000	10	2	3	100	3	.0
JUN 30...	16	3	9800	<10	7	0	280	2	.1
AUG 18...	7	2	1800	<10	8	0	50	5	.0

DATE	MERCURY DIS-SOLVED (UG/L AS HG)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI)	NICKEL, DIS-SOLVED (UG/L AS NI)	SELE-NIUM, TOTAL (UG/L AS SE)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG)	SILVER, DIS-SOLVED (UG/L AS AG)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN)	ZINC, DIS-SOLVED (UG/L AS ZN)
OCT 02...	--	--	--	--	--	0	--	--	--
APR 08...	.0	6	2	1	0	0	0	20	<3
JUN 30...	.0	13	3	0	0	0	0	70	<3
AUG 18...	.1	5	3	0	0	0	0	30	<3

09260000 LITTLE SNAKE RIVER NEAR LILY, CO--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	SED. SUSP. FALL DIAM. % FINER THAN .002 MM	SED. SUSP. FALL DIAM. % FINER THAN .004 MM	SED. SUSP. FALL DIAM. % FINER THAN .016 MM	SED. SUSP. FALL DIAM. % FINER THAN .062 MM	SED. SUSP. FALL DIAM. % FINER THAN .125 MM	SED. SUSP. FALL DIAM. % FINER THAN .250 MM	SED. SUSP. FALL DIAM. % FINER THAN .500 MM
OCT												
02...	1530	26	53	3.7	--	--	--	--	--	--	--	--
02...	1655	27	21	1.5	--	--	--	--	--	--	--	--
04...	1400	23	22	1.4	--	--	--	--	--	--	--	--
26...	1445	70	552	104	--	--	--	--	--	--	--	--
NOV												
09...	1140	180	250	121	61	--	--	--	--	--	--	--
16...	1445	174	225	106	--	--	--	--	--	--	--	--
20...	1140	135	6825	2490	4	--	--	--	--	--	--	--
20...	1225	140	4150	1570	--	--	--	--	--	--	--	--
27...	1130	185	79	39	--	--	--	--	--	--	--	--
DEC												
11...	1730	94	89	23	--	--	--	--	--	--	--	--
14...	1350	94	111	28	--	--	--	--	--	--	--	--
17...	1300	95	3100	795	3	--	--	--	--	--	--	--
22...	1130	90	150	36	--	--	--	--	--	--	--	--
28...	1150	215	3170	1840	--	--	--	--	--	--	--	--
28...	1200	88	3170	753	--	--	--	--	--	--	--	--
JAN												
01...	1525	86	718	167	--	--	--	--	--	--	--	--
04...	1125	E84	2170	1630	--	--	--	--	--	--	--	--
11...	1555	E80	44	9.5	--	--	--	--	--	--	--	--
18...	1315	E80	39	7.8	--	--	--	--	--	--	--	--
19...	1230	74	149	30	--	--	--	--	--	--	--	--
31...	1035	780	1230	2590	--	--	--	--	--	--	--	--
FEB												
07...	1045	92	46	11	--	--	--	--	--	--	--	--
15...	1250	--	27	--	--	--	--	--	--	--	--	--
15...	1255	130	27	9.5	--	--	--	--	--	--	--	--
22...	1055	190	2840	1460	--	--	--	--	--	--	--	--
23...	1330	200	465	251	--	--	--	--	--	--	--	--
28...	1055	334	1835	1660	--	--	--	--	--	--	--	--
MAR												
07...	1345	247	1179	786	--	--	--	--	--	--	--	--
APR												
05...	1230	247	2330	1550	30	--	--	--	--	--	--	--
08...	1050	233	2000	1260	7	--	--	--	--	--	--	--
19...	1145	966	11500	30000	--	--	--	--	--	--	--	--
23...	1200	862	6250	14500	14	--	--	--	--	--	--	--
MAY												
10...	1040	985	11800	31400	11	--	--	--	--	--	--	--
17...	1127	835	7210	16300	--	--	--	--	--	--	--	--
19...	1220	1280	5260	18200	--	17	20	26	36	40	46	77
JUN												
14...	1505	1000	4276	11500	--	--	--	--	--	--	--	--
21...	1215	352	1934	1840	--	--	--	--	--	--	--	--
30...	1030	82	659	146	--	--	--	--	--	--	--	--
JUL												
05...	1200	168	15900	7210	--	--	--	--	--	--	--	--

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)
JUL				
11...	1955	60	399	65
18...	1925	130	7470	2620
23...	1920	35	4020	380
27...	1300	35	137	13
AUG				
02...	1445	66	2060	367
09...	1315	24	106	6.9
15...	1345	72	210	41
18...	1300	5.1	137	1.9
23...	1145	12	1310	42
30...	1720	8.2	164	3.6
SEP				
08...	1515	16	140	6.0
10...	1100	4.0	113	1.2
13...	1440	10	142	3.8
20...	1215	1.5	59	.24
27...	1215	.09	806	.05

09260000 LITTLE SNAKE RIVER NEAR LILY, CO--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	535			---	---			---	1370
2	1050	---	---	---			---	---			---	1450
3	1040	---	---	---			---	---			---	1480
4	1050	---	---	---			---	---			---	1500
5	1070	---	---	---			---	---			---	1490
6	1070	---	---	---			---	---			---	1250
7	1070	---	---	---			---	---			---	1200
8	1060	---	---	---			554	---			1160	1190
9	1070	---	---	---			619	---			1180	1190
10	1060	---	---	---			704	---			1160	---
11	1060	---	699	---			862	254			1070	---
12	1070	---	704	---			855	250			1100	---
13	1030	---	700	---			623	259			852	---
14	997	---	734	---			424	290			1100	---
15	936	---	715	---			352	288			1070	---
16	912	---	713	---			374	280			1050	---
17	1120	---	689	---			422	264			1050	---
18	1030	---	650	---			386	291			1190	---
19	767	813	627	---			337	370			1220	---
20	705	768	640	---			228	238			1220	---
21	---	781	627	---			214	210			1250	---
22	---	743	590	---			208	212			1260	---
23	---	718	549	---			---	236			1270	---
24	---	701	555	---			---	276			1240	---
25	---	731	530	---			---	210			1240	---
26	---	755	530	---			---	214			1240	---
27	667	785	530	---			---	214			1240	---
28	677	---	535	---			---	214			1260	---
29	658	---	540	---			---	213			1270	---
30	637	---	479	---			---	217			1240	---
31	636	---	524	---			---	---			1250	---

09260000 LITTLE SNAKE RIVER NEAR LILY, CO--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	---	---	10.0	.5	.0	.0	2.0	.0	.0	.0	8.5	.0
2	21.0	5.0	8.5	2.0	.0	.0	1.5	.0	.0	.0	4.5	.5
3	21.5	5.0	6.5	1.5	1.0	.0	1.5	.0	.0	.0	8.5	.0
4	21.0	5.5	9.0	1.5	1.0	.0	3.0	.0	.0	.0	10.5	2.0
5	22.0	6.0	10.5	1.5	1.0	.0	1.0	.0	.0	.0	10.0	1.0
6	22.5	6.0	10.0	2.5	1.5	.0	1.0	.0	.0	.0	10.5	1.5
7	23.0	6.0	11.5	4.5	1.0	.0	1.0	.0	.0	.0	5.5	2.0
8	22.0	6.0	9.5	4.0	.0	.0	.0	.0	.0	.0	8.5	.5
9	20.5	6.0	9.5	.5	.0	.0	.0	.0	.0	.0	8.5	1.0
10	19.5	5.0	9.0	.5	.0	.0	.0	.0	.0	.0	12.0	1.0
11	18.5	4.0	7.5	2.0	.0	.0	.0	.0	.0	.0	10.0	1.0
12	14.0	5.0	8.5	3.5	.0	.0	.0	.0	.0	.0	11.5	2.5
13	18.0	7.5	5.5	1.0	.0	.0	.0	.0	.0	.0	10.5	1.0
14	14.5	8.0	3.0	.0	.0	.0	.0	.0	.0	.0	12.5	1.0
15	9.0	6.0	.5	.0	.0	.0	.0	.0	.0	.0	12.0	1.5
16	7.5	3.5	1.0	.0	.0	.0	.0	.0	.0	.0	9.5	2.5
17	6.5	3.5	.5	.0	.0	.0	.0	.0	.0	.0	9.0	1.0
18	8.0	4.0	.5	.0	.0	.0	.0	.0	.0	.0	8.0	1.5
19	10.0	3.5	.0	.0	.0	.0	.0	.0	.5	.0	7.5	1.5
20	10.0	4.0	.0	.0	.0	.0	.0	.0	.0	.0	7.5	3.5
21	9.5	4.0	.0	.0	.0	.0	.0	.0	.0	.0	5.5	2.0
22	10.0	4.5	.0	.0	.0	.0	.0	.0	.5	.0	10.5	1.0
23	7.5	2.0	.0	.0	.5	.0	.0	.0	.0	.0	12.5	3.0
24	6.0	.5	.5	.0	.0	.0	.0	.0	7.5	.0	9.0	4.5
25	7.5	.5	.0	.0	.5	.0	.0	.0	7.0	.0	12.0	2.0
26	5.0	1.5	.0	.0	1.0	.0	.0	.0	3.0	.0	11.0	3.5
27	4.5	.0	---	---	2.0	.0	.0	.0	7.5	.0	8.0	4.0
28	6.5	.0	---	---	2.5	.0	.0	.0	8.0	.0	7.0	2.0
29	7.0	.0	---	---	2.0	.0	.0	.0	---	---	11.0	.5
30	8.0	.0	.0	.0	2.0	.0	.0	.0	---	---	5.0	2.0
31	9.5	1.0	---	---	2.5	.0	.0	.0	---	---	9.5	.5

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	11.5	3.0	22.0	14.5	19.5	15.0	30.0	15.5	24.5	15.0	23.5	9.5
2	10.5	4.0	18.0	15.0	19.0	15.0	---	---	28.5	14.0	23.5	11.0
3	8.0	4.0	14.5	10.5	18.5	16.0	29.0	16.0	29.0	13.5	26.0	11.0
4	9.5	2.5	14.0	9.0	20.0	15.0	24.5	16.0	27.0	13.5	25.5	11.5
5	10.0	1.0	14.5	10.5	21.5	16.0	29.5	15.5	29.5	12.0	---	---
6	12.0	3.5	13.5	11.0	20.5	17.0	29.0	16.5	32.0	12.5	26.0	12.5
7	8.5	5.5	14.0	9.0	20.0	17.5	26.5	17.5	31.0	13.0	21.0	12.0
8	10.5	6.0	11.0	9.0	21.5	17.0	25.5	17.5	30.5	11.5	26.5	9.5
9	13.5	3.5	15.0	8.0	22.0	17.5	29.0	16.0	28.0	12.5	25.0	11.0
10	15.5	6.5	16.5	9.5	23.0	17.5	27.0	18.0	18.5	11.0	22.5	12.0
11	14.5	7.0	14.5	9.5	23.5	17.0	27.0	16.0	20.5	12.5	28.5	11.0
12	14.0	6.0	13.0	7.5	22.5	17.5	26.0	16.5	24.5	15.0	27.5	11.0
13	15.0	8.0	17.5	7.5	19.5	14.5	23.5	17.5	20.5	13.5	27.5	11.0
14	16.5	8.5	18.0	11.0	16.0	12.5	27.0	17.5	26.0	11.5	27.0	10.0
15	14.5	11.0	17.5	12.5	19.0	11.0	30.5	16.0	25.5	12.0	28.5	9.5
16	16.0	9.0	15.5	12.0	20.0	12.5	30.0	14.5	30.0	11.5	26.5	10.5
17	16.5	10.0	15.0	11.0	21.5	12.5	---	---	30.5	11.0	26.5	7.5
18	18.5	11.5	19.0	10.0	17.5	17.0	26.0	14.0	31.5	10.0	26.0	6.5
19	16.0	12.0	15.0	4.5	23.0	14.0	23.5	14.5	28.5	11.0	24.5	7.5
20	14.5	10.0	14.5	3.5	24.5	15.5	28.0	15.0	30.5	11.5	24.5	11.0
21	10.5	8.5	11.0	8.5	24.5	16.0	26.0	13.0	---	---	24.5	10.0
22	12.5	7.5	12.0	8.5	26.5	15.5	28.0	12.5	26.0	11.5	24.5	10.5
23	15.5	7.5	15.5	10.5	27.0	15.5	27.5	14.0	30.5	11.0	---	---
24	18.0	9.5	13.5	11.5	24.0	16.5	---	---	24.5	11.5	---	---
25	17.5	11.5	14.0	11.5	29.0	15.0	---	---	26.5	11.5	---	---
26	17.5	11.0	13.5	12.5	30.0	16.0	---	---	30.5	11.0	---	---
27	16.5	11.0	13.5	12.5	28.0	18.0	28.0	18.5	31.5	12.5	---	---
28	18.5	11.0	17.0	12.5	26.0	16.5	29.5	12.0	29.0	11.0	---	---
29	19.0	12.5	17.5	13.5	27.0	15.5	24.0	12.5	27.5	13.0	---	---
30	21.0	13.5	16.0	14.0	28.0	13.0	26.0	12.5	25.5	12.5	---	---
31	---	---	18.0	15.0	---	---	27.0	14.0	27.5	11.0	---	---

09260025 YAMPA RIVER BELOW LITTLE SNAKE RIVER, CO

LOCATION.--Lat 40°26'21", long 108°28'19", in SW¼SW¼ sec.25, T.6 N., R.99 W., Moffat County, Hydrologic Unit 14050002, 2.1 mi (3.4 km) downstream from Little Snake River and 6 mi (9.7 km) north of Elk Springs.

PERIOD OF RECORD.--November 1977 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: November 1977 to current year.
WATER TEMPERATURES: November 1977 to current year.

INSTRUMENTATION.--Water-quality monitor since November 1977.

REMARKS.--Daily maximum and minimum specific-conductance data available in district office.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 1,040 micromhos Oct. 4, 1979; minimum, 64 micromhos July 13, 1978.
WATER TEMPERATURES: Maximum, 29.5°C Aug. 2, 1980; minimum, 0.0°C on many days during winter period most years.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, not determined; minimum, 108 micromhos June 11, 12.
WATER TEMPERATURES: Maximum, not determined; minimum, 0.0°C on many days during November to February.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							---	207	156	319	516	
2							---	202	150	298	544	
3							---	194	147	330	517	
4							---	206	142	347	498	
5							---	241	150	343	492	
6							---	270	151	348	496	
7							---	262	145	345	506	
8							---	251	138	340	506	
9							---	251	122	345	499	
10							---	259	120	361	480	
11							---	269	114	380	361	
12							---	274	120	392	---	
13							---	286	125	405	---	
14							---	292	131	408	---	
15							---	304	141	399	---	
16							---	302	147	406	---	
17							---	300	172	416	---	
18							---	314	199	420	---	
19							---	323	222	446	654	
20							---	317	233	432	610	
21							---	312	246	416	603	
22							285	294	254	423	542	
23							272	266	254	425	---	
24							278	246	256	416	---	
25							283	255	266	427	---	
26							297	237	276	441	---	
27							306	221	290	458	---	
28							255	204	311	486	---	
29							224	184	379	487	---	
30							210	171	374	470	---	
31							---	165	---	471	---	

09260025 YAMPA RIVER BELOW LITTLE SNAKE RIVER, CO--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1			---	---	.0	.0	.0	.0	.0	.0		
2			---	---	.0	.0	.0	.0	.0	.0		
3			---	---	.0	.0	.0	.0	.0	.0		
4			---	---	.0	.0	.0	.0	.0	.0		
5			---	---	.0	.0	.0	.0	.0	.0		
6			---	---	.0	.0	.0	.0	.0	.0		
7			---	---	.0	.0	.0	.0	.0	.0		
8			---	---	.0	.0	.0	.0	.0	.0		
9			---	---	.0	.0	.0	.0	.0	.0		
10			---	---	.0	.0	.0	.0	.0	.0		
11			---	---	.0	.0	.0	.0	.0	.0		
12			---	---	.0	.0	.0	.0	.0	.0		
13			---	---	.0	.0	.0	.0	.0	.0		
14			---	---	.0	.0	.0	.0	.0	.0		
15			.0	.0	.0	.0	.0	.0	.0	.0		
16			.0	.0	.0	.0	.0	.0	.0	.0		
17			.0	.0	.0	.0	.0	.0	.0	.0		
18			.0	.0	.0	.0	.0	.0	.0	.0		
19			.0	.0	.0	.0	.0	.0	.0	.0		
20			.0	.0	.0	.0	.0	.0	.0	.0		
21			.0	.0	.0	.0	.0	.0	.0	.0		
22			.0	.0	.0	.0	.0	.0	.0	.0		
23			.0	.0	.0	.0	.0	.0	.0	.0		
24			.0	.0	.0	.0	.0	.0	.0	.0		
25			.0	.0	.0	.0	.0	.0	.0	.0		
26			.0	.0	.0	.0	.0	.0	---	---		
27			.0	.0	.0	.0	.0	.0	---	---		
28			.0	.0	.0	.0	.0	.0	---	---		
29			.0	.0	.0	.0	.0	.0	---	---		
30			.0	.0	.0	.0	.0	.0	---	---		
31			---	---	.0	.0	.0	.0	---	---		
MONTH			.0	.0	.0	.0	.0	.0	.0	.0		

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	---	---	18.0	14.0	17.0	14.0						
2	---	---	16.0	14.0	18.5	14.0						
3	---	---	14.0	11.0	18.5	14.5						
4	---	---	13.5	10.0	17.0	14.5						
5	---	---	12.5	10.0	17.5	15.0						
6	---	---	13.0	10.5	18.0	14.0						
7	---	---	13.5	10.5	18.5	14.5						
8	---	---	11.5	9.5	18.5	16.0						
9	---	---	13.0	8.5	19.5	16.0						
10	---	---	13.5	9.0	---	---						
11	---	---	13.0	10.5	---	---						
12	---	---	13.0	9.0	---	---						
13	---	---	14.5	9.0	---	---						
14	---	---	19.5	10.0	---	---						
15	---	---	15.0	11.0	---	---						
16	---	---	13.5	11.5	---	---						
17	---	---	12.5	11.0	---	---						
18	---	---	15.0	10.0	---	---						
19	---	---	17.0	14.5	---	---						
20	---	---	16.5	12.5	---	---						
21	---	---	12.0	10.5	---	---						
22	13.0	10.5	12.0	9.5	---	---						
23	14.5	9.0	14.5	10.5	---	---						
24	16.0	10.5	13.5	11.5	---	---						
25	16.5	12.0	14.0	12.0	---	---						
26	17.0	12.5	16.0	13.0	---	---						
27	16.5	12.0	15.5	14.0	---	---						
28	16.0	12.5	16.0	14.0	---	---						
29	16.5	13.0	15.5	13.0	---	---						
30	17.5	13.0	16.0	13.5	---	---						
31	---	---	16.5	14.5	---	---						
MONTH	17.5	9.0	19.5	8.5	19.5	14.0						

09302450 LOST CREEK NEAR BUFORD, CO

LOCATION.--Lat 40°03'01", long 107°28'06", in SE¼SE¼ sec.15, T.1 N., R.90 W., Rio Blanco County, Hydrologic Unit 14050005, on left bank 15 ft (5 m) downstream from highway bridge, 540 ft (165 m) upstream from mouth, 0.5 mi (0.8 km) downstream from Long Park Creek, and 9 mi (14 km) northeast of Buford.

DRAINAGE AREA.--21.5 mi² (55.7 km²).

PERIOD OF RECORD.--October 1964 to current year.

REVISED RECORDS.--WDR CO-79-3: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 7,560 ft (2,304 m), from topographic map. Oct. 1, 1973, to Sept. 30, 1975, at site 150 ft (46 m) upstream at same datum.

REMARKS.--Records good. No diversion above station. Several observations of specific conductance and water temperature were obtained and are published elsewhere in this report.

AVERAGE DISCHARGE.--17 years, 21.2 ft³/s (0.600 m³/s), 15,360 acre-ft/yr (18.9 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 944 ft³/s (26.7 m³/s) May 9, 1974, gage height, 7.53 ft (2.295 m), from rating curve extended above 260 ft³/s (7.4 m³/s); minimum daily, 0.30 ft³/s (0.008 m³/s) Jan. 9, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 150 ft³/s (4.2 m³/s) and maximum (*):

Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)
Apr. 25	1630	*164	4.64	2.88	0.878	May 2	2330	150	4.25	2.80	0.853

Minimum daily discharge, 0.70 ft³/s (0.020 m³/s) Aug. 28.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.4	2.1	2.1	1.7	1.8	1.9	2.7	70	56	12	1.4	.91
2	1.5	2.1	2.2	1.7	1.8	1.9	3.1	72	59	5.1	1.3	.84
3	1.4	2.0	2.2	1.8	2.0	1.9	3.3	112	50	4.3	1.2	.99
4	1.4	2.2	2.2	1.7	2.2	1.9	2.8	89	53	3.6	1.1	.90
5	1.5	2.2	2.1	1.7	2.7	2.0	2.8	64	48	3.1	1.1	.88
6	1.5	2.2	2.6	1.6	2.7	2.0	3.2	75	49	2.7	.98	1.2
7	1.5	2.3	2.1	1.7	3.4	2.0	3.6	63	47	2.4	.95	1.4
8	1.5	2.3	2.0	1.7	3.3	2.0	3.2	53	50	2.3	.93	1.4
9	1.5	2.2	2.0	1.6	2.9	1.9	3.9	46	49	2.8	.92	1.1
10	1.5	2.1	2.4	1.5	2.2	2.0	5.6	39	54	4.3	1.0	1.3
11	1.5	2.1	2.3	1.4	2.0	2.0	7.0	43	48	1.7	1.1	1.3
12	1.7	2.2	2.2	1.3	1.9	2.1	8.2	38	50	2.8	1.3	1.6
13	2.1	2.8	2.3	1.3	1.8	2.1	10	34	45	3.1	1.3	1.4
14	2.6	2.2	2.3	1.4	1.8	2.1	17	31	47	1.8	1.2	1.3
15	2.7	1.8	2.2	1.4	1.8	2.1	25	30	39	1.3	1.2	1.2
16	2.3	2.3	2.2	1.5	1.8	2.2	37	28	44	1.1	1.4	1.0
17	2.5	2.1	2.2	1.5	1.8	2.2	46	30	53	1.2	1.1	.88
18	2.5	2.0	2.2	1.5	1.9	2.1	52	29	53	1.3	.96	.80
19	2.5	2.1	2.1	1.5	1.8	2.1	78	33	42	1.1	.85	.80
20	2.4	2.1	2.0	1.5	1.8	2.2	56	37	39	.89	.83	.84
21	2.4	2.0	2.0	1.5	1.8	2.1	44	40	50	.78	.82	.96
22	2.4	2.0	2.0	1.5	1.8	2.3	41	34	59	.97	.88	1.0
23	2.1	2.2	1.9	1.6	1.8	2.3	49	32	42	1.3	.86	.95
24	1.8	2.3	2.0	1.6	1.9	2.3	76	30	37	1.5	.90	.96
25	2.0	2.2	2.0	1.6	2.0	2.4	95	30	43	2.0	.98	1.0
26	2.1	2.2	2.0	1.8	1.9	2.9	99	29	31	2.4	.84	1.1
27	2.2	2.2	1.9	1.8	1.9	3.2	87	35	26	2.8	.76	1.1
28	1.8	2.2	1.9	1.8	1.9	2.9	83	32	21	1.9	.70	1.1
29	1.9	2.2	1.7	1.7	---	2.6	79	46	18	1.5	.75	1.1
30	2.1	2.2	1.8	1.7	---	2.6	76	50	14	1.4	1.0	1.1
31	2.1	---	1.7	1.8	---	2.5	---	57	---	1.6	.94	---
TOTAL	60.4	65.1	64.3	49.4	58.4	68.8	1099.4	1431	1316	77.04	31.55	32.41
MEAN	1.95	2.17	2.07	1.59	2.09	2.22	36.6	46.2	43.9	2.49	1.02	1.08
MAX	2.7	2.8	2.4	1.8	3.4	3.2	99	112	59	12	1.4	1.6
MIN	1.4	1.8	1.7	1.3	1.8	1.9	2.7	28	14	.78	.70	.80
AC-FT	120	129	128	98	116	136	2180	2840	2610	153	63	64

CAL YR 1980 TOTAL 8859.40 MEAN 24.2 MAX 403 MIN 1.2 AC-FT 17570
WTR YR 1981 TOTAL 4353.80 MEAN 11.9 MAX 112 MIN .70 AC-FT 8640

09302500 MARVINE CREEK NEAR BUFORD, CO

LOCATION.--Lat 40°02'18", long 107°29'15", in NE¼SE¼ sec.21, T.1 N., R.90 W., Rio Blanco County, Hydrologic Unit 14050005, on right bank 166 ft (50 m) upstream from county road bridge, 1,800 ft (550 m) upstream from mouth, and 8 mi (13 km) northeast of Buford.

DRAINAGE AREA.--59.7 mi² (154.6 km²).

PERIOD OF RECORD.--July 1903 to September 1906, September 1972 to current year.

REVISED RECORDS.--WSP 1313: 1905-6. WDR CO-79-3: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 7,500 ft (2,286 m), from topographic map. July 28, 1903, to Sept. 30, 1906, nonrecording gage at approximately same site at different datum. Sept. 1, 1972, to Sept. 30, 1973, at site 40 ft (12 m) downstream at datum 1.69 ft (0.515 m) higher. Oct. 1, 1973, to Sept. 30, 1975, at site 126 ft (38 m) downstream at datum 5.0 ft (1.5 m) higher.

REMARKS.--Records good. Diversions above station for irrigation of 310 acres (1.25 km²) of hay meadows. One small transbasin diversion above station to Ute Creek basin. Several observations of specific conductance and water temperature were obtained and are published elsewhere in this report.

AVERAGE DISCHARGE.--12 years, 90.5 ft³/s (2.549 m³/s), 65,200 acre-ft/yr (80.4 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge observed, 723 ft³/s (20.5 m³/s) June 17, 1905, gage height, 3.50 ft (1.067 m), datum then in use; maximum gage height recorded, 5.39 ft (1.643 m), Dec. 17, 1972, site then in use (backwater from ice); minimum discharge not determined.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 187 ft³/s (5.30 m³/s) at 2400 June 9, gage height, 3.16 ft (0.963 m), no peak above base of 300 ft³/s (8.50 m³/s); minimum daily, 47 ft³/s (1.33 m³/s) Feb. 19, 21, 22.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	74	66	65	58	59	48	50	82	115	78	72	64
2	67	68	64	58	58	48	51	90	119	78	70	59
3	63	68	65	59	56	49	52	118	126	78	70	60
4	63	67	64	58	51	48	51	97	136	78	69	60
5	64	69	65	58	52	49	55	88	138	78	68	60
6	62	67	64	58	52	49	51	92	156	76	61	63
7	63	68	68	66	53	49	51	85	154	77	66	62
8	62	68	65	66	51	49	49	81	150	77	69	61
9	62	64	64	69	51	50	52	78	146	77	67	57
10	62	64	86	60	54	49	60	75	142	76	66	60
11	62	65	77	65	58	49	63	76	138	76	67	60
12	64	65	67	69	62	48	63	72	134	76	69	59
13	66	74	73	68	51	48	63	71	130	76	71	60
14	69	72	71	59	51	48	64	74	126	76	70	60
15	75	61	62	55	49	48	68	69	122	75	69	59
16	72	68	62	55	49	48	73	71	118	75	71	58
17	72	87	62	55	49	50	75	73	114	75	69	57
18	71	83	62	55	50	49	75	72	110	75	64	56
19	69	70	62	53	47	48	86	71	108	75	64	56
20	68	69	62	60	48	48	79	74	106	75	68	56
21	68	71	60	58	47	50	72	73	104	74	70	58
22	68	68	62	57	47	49	70	78	102	74	67	58
23	67	66	61	53	51	48	70	80	100	73	66	58
24	65	66	61	54	49	50	74	77	98	73	68	58
25	68	65	61	68	48	51	80	77	96	73	65	58
26	70	64	60	53	49	50	83	81	94	72	63	58
27	69	69	60	53	48	52	83	87	92	72	60	56
28	67	64	59	53	48	50	81	99	90	72	58	55
29	67	64	58	53	---	49	81	113	80	71	60	55
30	69	65	60	54	---	51	82	108	80	71	62	55
31	68	---	58	53	---	51	---	119	---	71	63	---
TOTAL	2076	2045	1990	1813	1438	1523	2007	2601	3524	2323	2062	1756
MEAN	67.0	68.2	64.2	58.5	51.4	49.1	66.9	83.9	117	74.9	66.5	58.5
MAX	75	87	86	69	62	52	86	119	156	78	72	64
MIN	62	61	58	53	47	48	49	69	80	71	58	55
AC-FT	4120	4060	3950	3600	2850	3020	3980	5160	6990	4610	4090	3480

CAL YR 1980 TOTAL 29473 MEAN 80.5 MAX 212 MIN 42 AC-FT 58460
WTR YR 1981 TOTAL 25158 MEAN 68.9 MAX 156 MIN 47 AC-FT 49900

09303000 NORTH FORK WHITE RIVER AT BUFORD, CO

LOCATION.--Lat 39°59'15", long 107°36'50", in NW¼NW¼ sec.9, T.1 S., R.91 W., Rio Blanco County, Hydrologic Unit 14050005, on right bank 600 ft (180 m) east of Buford and 1.2 mi (1.9 km) upstream from South Fork White River.

DRAINAGE AREA.--260 mi² (673 km²).

PERIOD OF RECORD.--May 1910 to December 1915, July 1919 to December 1920, October 1951 to current year. Monthly discharge only for some periods, published in WSP 1313. Published as North Fork White River near Buford prior to 1951 and as White River at Buford 1951-67. Records for July 1903 to December 1906 at site 6.5 mi (10.5 km) upstream not equivalent because of inflow between sites.

REVISED RECORDS.--WSP 1343: 1912. WDR CO-79-3: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 7,010 ft (2,137 m), from topographic map. May 24, 1910, to May 27, 1914, nonrecording gage at site 1.5 mi (2.4 km) upstream at different datum. May 28, 1914, to Dec. 7, 1915, and July 1, 1919, to Oct. 9, 1920, nonrecording gage at present site at different datum.

REMARKS.--Records good. Diversions above station for irrigation of about 900 acres (3.64 km²) above and 300 acres (1.21 km²) below station.

AVERAGE DISCHARGE.--36 years (water years 1911-15, 1920, 1952-81), 305 ft³/s (8.638 m³/s), 221,000 acre-ft/yr (272 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 3,150 ft³/s (89.2 m³/s) May 30, 1912; maximum gage height, 7.22 ft (2.201 m) Jan. 9, 1961 (backwater from ice); minimum daily discharge, 90 ft³/s (2.55 m³/s) Feb. 21, 1955.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,010 ft³/s (28.6 m³/s) at 0100 June 10, gage height, 5.41 ft (1.649 m), only peak above base of 1,000 ft³/s (28 m³/s); minimum daily, 124 ft³/s (3.51 m³/s) July 29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	170	170	158	150	140	135	141	507	634	261	160	167
2	177	170	158	150	144	137	147	513	634	305	158	151
3	165	170	156	150	135	136	158	739	690	277	158	145
4	165	172	156	148	142	136	151	568	746	252	156	145
5	165	170	156	148	140	133	145	489	690	246	152	145
6	165	172	154	148	138	137	152	495	706	249	146	145
7	167	172	160	146	138	134	158	456	792	222	144	145
8	167	170	156	148	138	132	151	400	840	210	142	145
9	158	167	150	144	152	130	162	370	912	210	144	145
10	154	165	148	156	138	131	197	337	912	255	144	142
11	165	165	152	142	131	129	226	345	824	197	146	144
12	167	167	167	138	152	130	226	341	706	222	148	144
13	180	187	156	140	148	130	227	305	613	190	150	145
14	185	175	165	136	152	130	234	294	531	162	150	142
15	187	162	190	148	146	129	258	305	467	154	150	142
16	182	150	170	154	144	129	287	309	425	154	150	142
17	190	167	156	150	156	135	321	325	363	160	150	142
18	190	182	156	146	152	132	337	317	333	156	152	142
19	185	165	156	140	141	130	420	313	313	148	154	140
20	185	160	154	142	141	131	390	333	298	142	155	143
21	185	165	154	133	141	137	301	345	287	138	156	145
22	190	167	152	146	138	132	301	363	270	136	155	145
23	185	162	154	146	138	135	291	376	252	138	158	142
24	170	162	154	146	139	141	358	376	255	136	159	142
25	177	167	152	142	139	136	451	390	252	144	155	145
26	182	162	152	136	138	144	495	425	246	140	155	144
27	185	160	148	154	138	154	501	484	261	138	160	143
28	175	170	150	146	136	145	478	576	321	126	160	142
29	172	160	148	142	---	141	484	620	273	124	162	145
30	172	160	150	142	---	145	507	594	261	126	165	143
31	172	---	154	142	---	146	---	662	---	136	143	---
TOTAL	5434	4993	4862	4491	3975	4202	8655	13270	15083	5656	4717	4317
MEAN	175	166	156	145	142	136	289	428	503	182	152	144
MAX	190	187	190	156	156	154	507	739	912	305	162	167
MIN	154	142	148	133	131	129	141	294	246	124	142	140
AC-FT	10780	9900	9640	8910	7880	8330	17170	26320	29920	11220	9360	8560

CAL YR 1980 TOTAL 112188 MEAN 307 MAX 1220 MIN 161 AC-FT 222500
WTR YR 1981 TOTAL 79635 MEAN 218 MAX 912 MIN 124 AC-FT 158000

09303300 SOUTH FORK WHITE RIVER AT BUDGE'S RESORT, CO

LOCATION.--Lat 39°50'36", long 107°20'03", in NW¼ sec.36, T.2 S., R.89 W., Garfield County, Hydrologic Unit 14050005, on right bank 20 ft (6 m) upstream from Forest Service trail bridge, 0.2 mi (0.3 km) upstream from Wagonwheel Creek, and 0.3 mi (0.5 km) northeast of Budge's Resort.

DRAINAGE AREA.--52.3 mi^2 (135.5 km^2).

PERIOD OF RECORD.--June 1975 to current year.

REVISED RECORDS.--WDR CO-79-3: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 8,980 ft (2,737 m), from topographic map. June 1, 1975, to July 7, 1976, at site on left bank 50 ft (15 m) upstream at datum 1.3 ft (0.396 m) lower.

REMARKS.--Records fair except those for winter period, which are poor. No diversion above station. Several observations of specific conductance and water temperature were obtained and are published elsewhere in this report.

AVERAGE DISCHARGE.--6 years, 96.0 ft^3/s (2.719 m^3/s), 69,550 acre-ft/yr (85.8 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,580 ft^3/s (44.7 m^3/s) June 8, 1981, gage height, 5.95 ft (1.814 m); minimum daily, 21 ft^3/s (0.59 m^3/s) Sept. 29, 30, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,580 ft^3/s (44.7 m^3/s) at 2100 June 8, gage height, 5.95 ft (1.814 m); minimum daily, 30 ft^3/s (0.85 m^3/s) Apr. 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	50	54	46	41	35	31	31	112	296	90	53	45
2	50	51	46	40	35	31	31	134	318	100	53	41
3	50	51	45	40	34	31	31	133	321	105	51	45
4	50	51	44	40	34	31	31	130	334	95	50	41
5	50	50	44	40	34	31	31	129	363	85	48	41
6	50	50	44	40	34	31	31	128	406	75	46	47
7	50	50	44	39	34	31	31	127	527	70	46	45
8	50	50	44	39	34	31	31	125	707	70	45	45
9	50	50	44	39	34	31	30	123	826	70	45	44
10	48	49	44	39	34	31	35	121	577	75	53	51
11	48	48	44	39	33	31	42	119	413	65	55	50
12	48	50	43	38	33	31	43	110	270	70	55	46
13	50	50	43	38	33	31	42	105	250	69	57	50
14	50	49	42	38	33	31	45	100	230	68	51	47
15	57	49	42	38	33	31	50	96	210	67	54	45
16	57	48	42	38	33	31	52	94	190	66	54	42
17	57	48	42	37	33	31	60	92	170	72	51	40
18	56	47	42	37	33	31	73	90	150	70	46	39
19	55	47	42	36	32	31	85	89	140	68	45	39
20	57	47	42	36	32	31	72	82	130	66	45	39
21	59	47	42	36	32	31	66	90	120	64	43	43
22	58	47	42	35	32	31	61	91	115	62	43	40
23	57	46	42	35	32	31	61	88	110	60	42	39
24	60	46	42	35	32	31	76	90	105	60	43	39
25	59	46	42	35	32	31	96	96	100	65	43	39
26	51	45	42	35	32	31	103	114	95	64	42	39
27	51	45	42	35	31	31	101	143	100	63	42	38
28	54	45	42	35	31	31	98	191	105	62	41	37
29	58	45	42	35	---	31	105	218	100	61	41	37
30	55	45	41	35	---	31	108	236	95	59	46	39
31	52	---	41	35	---	31	---	269	---	53	49	---
TOTAL	1647	1446	1329	1158	924	961	1752	3865	7873	2189	1478	1272
MEAN	53.1	48.2	42.9	37.4	33.0	31.0	58.4	125	262	70.6	47.7	42.4
MAX	60	54	46	41	35	31	108	269	826	105	57	51
MIN	48	45	41	35	31	31	30	82	95	53	41	37
AC-FT	3270	2870	2640	2300	1830	1910	3480	7670	15620	4340	2930	2520

CAL YR 1980 TOTAL 35996 MEAN 98.3 MAX 1000 MIN 30 AC-FT 71400
WTR YR 1981 TOTAL 25894 MEAN 70.9 MAX 826 MIN 30 AC-FT 51360

NOTE.--NO GAGE-HEIGHT RECORD NOV. 14 TO APR. 4, JUNE 12 TO JULY 29.

09303320 WAGONWHEEL CREEK AT BUDGE'S RESORT, CO

LOCATION.--Lat 39°50'40", long 107°20'10", in SW¼SW¼ sec.25, T.2 S., R.89 W., Garfield County, Hydrologic Unit 14050005, on right bank 60 ft (18 m) upstream from mouth and confluence of South Fork White River, about 800 ft (240 m) downstream from private road bridge, and 0.2 mi (0.3 km) north-northeast of Budge's Resort.

DRAINAGE AREA.--7.36 mi² (19.06 km²).

PERIOD OF RECORD.--June 1975 to current year.

REVISED RECORDS.--WDR CO-79-3: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 8,980 ft (2,737 m), from topographic map.

REMARKS.--Records excellent except those for periods of flow, which are good. Several observations of specific conductance and water temperature were obtained and are published elsewhere in this report.

AVERAGE DISCHARGE.--6 years, 6.66 ft³/s (0.189 m³/s), 4,830 acre-ft/yr (5.96 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 223 ft³/s (6.32 m³/s) June 12, 1980, gage height, 4.27 ft (1.301 m); no flow many days each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 111 ft³/s (3.14 m³/s) at 2000 May 31, gage height, 3.68 ft (1.122 m), only peak above base of 55 ft³/s (1.56 m³/s); no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.25	.25	.00	.00	.00	.00	.00	23	90	3.7	.60	.47
2	.25	.25	.00	.00	.00	.00	.00	28	91	6.2	.58	.38
3	.25	.25	.00	.00	.00	.00	.00	28	88	6.6	.56	.27
4	.25	.25	.00	.00	.00	.00	.00	25	80	4.8	.52	.17
5	.25	.25	.00	.00	.00	.00	.00	21	76	3.9	.49	.12
6	.25	.25	.00	.00	.00	.00	.00	18	70	3.1	.50	.16
7	.25	.25	.00	.00	.00	.00	.00	16	67	2.6	.51	.11
8	.25	.25	.00	.00	.00	.00	.00	14	62	2.5	.52	.11
9	.25	.25	.00	.00	.00	.00	.00	14	53	2.5	.53	.11
10	.25	.25	.00	.00	.00	.00	.00	12	42	2.8	.58	.16
11	.25	.25	.00	.00	.00	.00	.00	12	34	2.3	.58	.12
12	.25	.25	.00	.00	.00	.00	.00	11	26	2.5	.63	.10
13	.25	.25	.00	.00	.00	.00	.00	10	22	2.3	.60	.13
14	.25	.25	.00	.00	.00	.00	.00	11	18	2.2	.56	.11
15	.25	.20	.00	.00	.00	.00	.00	12	15	2.0	.50	.10
16	.25	.15	.00	.00	.00	.00	.05	11	13	1.9	.48	.10
17	.25	.10	.00	.00	.00	.00	.10	11	11	2.3	.42	.10
18	.25	.05	.00	.00	.00	.00	.25	11	10	2.0	.40	.10
19	.25	.00	.00	.00	.00	.00	.50	15	9.2	1.8	.36	.10
20	.25	.00	.00	.00	.00	.00	1.1	13	8.2	1.5	.34	.10
21	.25	.00	.00	.00	.00	.00	.98	14	7.3	1.4	.30	.10
22	.25	.00	.00	.00	.00	.00	1.1	14	6.6	1.3	.28	.10
23	.25	.00	.00	.00	.00	.00	1.1	13	5.9	1.2	.24	.09
24	.25	.00	.00	.00	.00	.00	1.4	15	5.3	1.2	.24	.09
25	.25	.00	.00	.00	.00	.00	1.9	17	4.6	1.5	.22	.09
26	.25	.00	.00	.00	.00	.00	2.1	25	4.2	1.3	.22	.09
27	.25	.00	.00	.00	.00	.00	2.3	49	4.9	1.2	.23	.09
28	.25	.00	.00	.00	.00	.00	2.8	79	7.0	1.0	.20	.08
29	.25	.00	.00	.00	---	.00	3.7	91	4.9	.84	.17	.08
30	.25	.00	.00	.00	---	.00	4.4	91	4.2	.72	.28	.10
31	.25	---	.00	.00	---	.00	---	93	---	.63	.50	---
TOTAL	7.75	4.00	.00	.00	.00	.00	23.78	817	940.3	71.79	13.14	4.03
MEAN	.25	.13	.000	.000	.000	.000	.79	26.4	31.3	2.32	.42	.13
MAX	.25	.25	.00	.00	.00	.00	4.4	93	91	6.6	.63	.47
MIN	.25	.00	.00	.00	.00	.00	.00	10	4.2	.63	.17	.08
AC-FT	15	7.9	.00	.00	.00	.00	47	1620	1870	142	26	8.0

CAL YR 1980 TOTAL 3054.02 MEAN 8.34 MAX 166 MIN .00 AC-FT 6060
WTR YR 1981 TOTAL 1881.79 MEAN 5.16 MAX 93 MIN .00 AC-FT 3730

09303400 SOUTH FORK WHITE RIVER NEAR BUDGE'S RESORT, CO

LOCATION.--Lat 39°51'51", long 107°32'00", in NW¼SE¼ sec.19, T.2 S., R.90 W., Rio Blanco County, Hydrologic Unit 14050005, on right bank on downstream side of Forest Service bridge, 300 ft (91 m) upstream from South Fork Campground, 10 mi (16.1 km) above mouth, and about 10.5 mi (17 km) southeast of Buford.

DRAINAGE AREA.--128 mi² (332 km²).

PERIOD OF RECORD.--May 1976 to current year.

REVISED RECORDS.--WDR CO-79-3: 1976(M), 1977, 78(P), 1978.

GAGE.--Water-stage recorder. Altitude of gage is 7,600 ft (2,316 m), from topographic map.

REMARKS.--Records good except those for winter period, which are poor. No regulation or diversions above station. Several observations of specific conductance and water temperature were obtained and are published elsewhere in this report.

AVERAGE DISCHARGE.--5 years, 182 ft³/s (5.154 m³/s), 131,900 acre-ft/yr (163 hm³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,940 ft³/s (83.3 m³/s) June 14, 1978, gage height, 5.36 ft (1.634 m); minimum daily, 40 ft³/s (1.13 m³/s) Feb. 1 to Mar. 10, 1980, Dec. 30, 1980, Jan. 10, 15, 1981.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 500 ft³/s (14 m³/s) and maximum (*):

Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)
May 3	0200	722	20.4	4.15	1.265	June 8	2100	*1150	32.7	4.44	1.353

Minimum daily discharge, 40 ft³/s (1.13 m³/s) Dec. 30, Jan. 10, 15.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	69	71	62	43	50	54	56	360	820	132	105	80
2	67	73	60	45	50	52	62	454	786	171	105	75
3	67	75	60	44	50	56	60	593	776	167	101	77
4	67	74	58	48	50	56	56	477	761	141	97	74
5	67	74	58	50	45	56	62	365	756	126	92	71
6	67	75	56	45	49	56	64	337	754	118	89	78
7	67	77	56	48	54	54	62	297	819	110	85	78
8	72	79	50	50	60	54	64	269	828	106	84	77
9	67	78	50	49	64	54	70	245	751	106	81	79
10	67	76	40	40	68	50	90	221	636	122	84	89
11	68	74	52	48	72	50	88	212	584	108	100	91
12	68	76	54	46	68	50	84	197	524	147	102	82
13	76	80	54	47	64	47	90	188	435	127	94	81
14	78	72	60	48	60	47	100	185	392	116	90	83
15	86	68	64	40	64	45	105	194	285	105	87	80
16	81	45	60	42	68	45	110	204	250	100	90	77
17	81	50	50	51	68	45	130	207	230	111	87	74
18	80	53	50	48	72	43	160	205	215	113	82	71
19	78	56	50	49	68	56	150	210	200	106	79	70
20	75	66	45	51	60	52	175	245	186	95	78	68
21	76	64	50	48	64	49	184	253	175	88	76	73
22	78	62	54	49	60	52	174	252	165	85	75	72
23	69	73	52	50	60	54	214	253	154	134	76	70
24	63	74	45	52	60	50	196	267	144	133	76	68
25	68	76	52	54	60	54	237	285	135	147	76	67
26	76	70	50	48	60	60	255	395	130	138	76	67
27	77	60	48	51	60	56	256	594	138	134	75	67
28	72	65	46	52	60	56	254	778	209	126	73	67
29	71	70	44	50	---	56	275	834	165	117	72	65
30	72	66	40	50	---	52	301	841	143	114	77	68
31	72	---	45	50	---	50	---	862	---	108	85	---
TOTAL	2242	2072	1615	1486	1688	1611	4184	11279	12546	3751	2649	2239
MEAN	72.3	69.1	52.1	47.9	60.3	52.0	139	364	418	121	85.5	74.6
MAX	86	80	64	54	72	60	301	862	828	171	105	91
MIN	63	45	40	40	45	43	56	185	130	85	72	65
AC-FT	4450	4110	3200	2950	3350	3200	8300	22370	24880	7440	5250	4440

CAL YR 1980 TOTAL 67910 MEAN 186 MAX 1880 MIN 40 AC-FT 134700
WTR YR 1981 TOTAL 47362 MEAN 130 MAX 862 MIN 40 AC-FT 93940

NOTE.--NO GAGE-HEIGHT RECORD NOV. 13 to APR. 21.

09303500 SOUTH FORK WHITE RIVER NEAR BUFORD, CO

LOCATION.--Lat 39°55'18", long 107°33'04", in NW¼SE¼ sec.36, T.1 S., R.91 W., Rio Blanco County, Hydrologic Unit 14050005, on left bank at upstream side of county bridge, 10 ft (3 m) downstream from Peltier Creek, and 5.6 mi (9.0 km) southeast of Buford.

DRAINAGE AREA.--152 mi^2 (394 km^2).

PERIOD OF RECORD.--August 1903 to October 1906, June 1910 to December 1915, October 1942 to September 1947, April 1967 to current year. Monthly discharge only for some periods, published in WSP 1313.

REVISED RECORDS.--WSP 1057: 1944-45. WDR CO-79-3: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 7,480 ft (2,280 m), from topographic map. July 26, 1903, to Oct. 31, 1906, nonrecording gage, and Oct. 1, 1942, to Sept. 30, 1947, water-stage recorder, at site 60 ft (18 m) upstream at different datums. Records for 1919-20 at site 6.0 mi (9.7 km) downstream not equivalent.

REMARKS.--Records fair except those for winter period, which are poor. Diversions for irrigation of about 600 acres (2.43 km^2) of hay meadows above station. Several observations of specific conductance and water temperature were obtained and are published elsewhere in this report.

AVERAGE DISCHARGE.--27 years (water years 1904-6, 1911-15, 1943-47, 1968-81), 257 ft^3/s (7.278 m^3/s), 186,200 acre-ft (230 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge observed, 3,230 ft^3/s (91.5 m^3/s) June 17, 1906, gage height, 8.2 ft (2.50 m), site and datum then in use, from rating curve extended above 1,600 ft^3/s (45 m^3/s); minimum discharge recorded, 56 ft^3/s (1.59 m^3/s) Dec. 18, 1946, gage height, 1.01 ft (0.308 m), site and datum then in use, but may have been less during periods of no gage-height record.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,420 ft^3/s (40.2 m^3/s) at 0200 June 9, gage height, 5.45 ft (1.661 m), only peak above base of 1,200 ft^3/s (34 m^3/s); minimum daily, 73 ft^3/s (2.07 m^3/s) Dec. 15.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	105	90	82	111	125	96	137	413	1020	203	119	117
2	103	91	96	107	125	94	138	486	1020	224	115	111
3	103	90	79	103	124	92	138	635	1060	219	119	112
4	103	90	78	117	123	90	139	498	1020	203	119	108
5	103	90	78	105	122	88	140	435	1040	202	118	106
6	103	89	77	99	121	86	140	427	1050	201	117	112
7	102	89	78	112	120	84	141	388	1100	171	115	114
8	102	88	79	125	119	82	142	353	1170	168	115	111
9	100	88	93	123	118	80	143	329	1170	166	117	109
10	100	86	116	120	117	79	143	304	1010	202	123	117
11	99	84	123	125	116	80	144	304	816	167	136	119
12	100	85	84	120	115	79	145	285	676	203	133	110
13	106	89	84	158	114	80	145	269	558	201	134	110
14	108	88	81	117	113	80	146	262	468	166	131	104
15	116	82	73	105	112	79	149	280	395	158	125	106
16	109	87	79	95	111	80	151	291	343	152	126	102
17	111	80	96	90	110	80	155	301	314	157	121	99
18	108	92	108	137	109	82	166	288	294	163	117	98
19	106	87	102	119	108	84	178	286	274	156	117	96
20	104	75	112	120	107	85	193	320	259	146	117	96
21	104	96	107	117	106	85	173	328	247	136	114	99
22	104	87	93	121	105	86	201	326	235	133	113	96
23	98	81	84	132	104	87	169	325	224	130	111	93
24	99	83	115	133	103	87	202	341	213	128	112	94
25	116	96	96	132	102	89	226	371	204	139	111	92
26	99	95	87	131	101	91	268	467	203	137	108	92
27	98	101	84	130	100	94	276	653	204	139	108	90
28	94	93	82	129	98	100	278	838	268	135	107	89
29	98	85	82	128	---	131	316	905	224	129	105	87
30	105	79	82	127	---	135	358	913	204	124	110	88
31	95	---	107	126	---	136	---	988	---	120	117	---
TOTAL	3201	2636	2817	3714	3148	2801	5440	13609	17283	5078	3650	3077
MEAN	103	87.9	90.9	120	112	90.4	181	439	576	164	118	103
MAX	116	101	123	158	125	136	358	988	1170	224	136	119
MIN	94	75	73	90	98	79	137	262	203	120	105	87
AC-FT	6350	5230	5590	7370	6240	5560	10790	26990	34280	10070	7240	6100

CAL YR 1980 TOTAL 93676 MEAN 256 MAX 2150 MIN 73 AC-FT 185800
WTR YR 1981 TOTAL 66454 MEAN 182 MAX 1170 MIN 73 AC-FT 131800

NOTE.--NO GAGE-HEIGHT RECORD Jan. 24 to Mar. 9

09304000 SOUTH FORK WHITE RIVER AT BUFORD, CO

LOCATION.--Lat 39°58'28", long 107°37'30", in NW¼NE¼ sec.17, T.1 S., R.91 W., Rio Blanco County, Hydrologic Unit 14050005, on left bank 300 ft (91 m) downstream from highway bridge, 0.8 mi (1.3 km) upstream from mouth, and 1.0 mi (1.6 km) south of Buford.

DRAINAGE AREA.--177 mi^2 (458 km^2).

PERIOD OF RECORD.--July 1919 to December 1920 (monthly discharge only, published in WSP 1313), October 1951 to current year.

REVISED RECORDS.--WDR CO-79-3: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 6,970 ft (2,124 m), from topographic map. Prior to Nov. 30, 1920, nonrecording gage at site 200 ft (61 m) downstream at different datum. Oct. 1951 to Apr. 1981, at site 500 ft (152 m) downstream, at different datum.

REMARKS.--Records good, except those for period of no gage-height record, which are fair. Diversions above station for irrigation of about 1,100 acres (4.45 km^2) above station and a small area below.

AVERAGE DISCHARGE.--31 years, 252 ft^3/s (7.137 m^3/s), 182,600 acre-ft/yr (225 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,000 ft^3/s (85 m^3/s) June 16, 1978; maximum gage height, 7.07 ft (2.155 m) June 30, 1957; minimum daily discharge, 47 ft^3/s (1.33 m^3/s) Jan. 15, 1981.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,400 ft^3/s (39.6 m^3/s) at 0330 June 9, gage height, 4.34 ft (1.323 m), only peak above base of 1,300 ft^3/s (37 m^3/s); minimum daily, 47 ft^3/s (1.33 m^3/s) Jan. 15.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	120	112	110	64	74	80	82	402	841	164	92	102
2	122	113	108	71	74	80	98	470	684	218	92	95
3	112	112	109	67	75	90	102	636	921	222	90	98
4	111	113	109	81	74	90	98	522	899	194	90	101
5	112	112	107	87	60	90	80	435	933	170	86	104
6	112	112	105	62	70	90	100	425	953	167	90	112
7	111	112	107	71	80	80	103	390	1010	161	86	112
8	111	112	91	74	90	80	100	358	1080	161	78	110
9	111	111	91	73	95	80	104	330	1120	158	76	113
10	111	109	53	51	100	80	123	298	950	182	86	116
11	110	108	104	70	105	80	140	294	817	164	100	124
12	112	111	112	67	100	80	139	274	672	222	95	122
13	119	120	112	69	95	80	134	256	510	190	95	120
14	122	113	122	72	90	75	137	247	410	164	97	123
15	130	78	151	47	95	75	150	249	346	152	97	118
16	125	62	134	55	100	70	153	263	294	146	100	114
17	127	103	102	81	100	70	159	273	262	146	100	109
18	123	113	103	73	105	70	183	260	242	164	97	107
19	121	120	104	74	100	68	215	246	230	155	95	108
20	120	124	81	75	90	95	223	268	222	143	105	108
21	121	118	92	69	95	88	195	279	218	122	100	116
22	121	107	97	70	90	82	194	273	206	107	90	111
23	115	109	95	72	90	88	177	267	202	107	88	109
24	106	114	70	74	90	91	204	265	194	105	92	112
25	114	109	94	75	90	81	246	292	174	117	95	110
26	121	104	93	66	90	94	296	338	164	112	90	108
27	120	80	91	75	90	100	309	463	174	117	90	109
28	112	116	90	77	90	93	308	643	258	115	88	109
29	110	114	72	73	---	93	340	766	202	110	87	107
30	117	110	60	74	---	94	385	794	170	105	91	107
31	115	---	75	74	---	87	---	816	---	97	99	---
TOTAL	3614	3251	3044	2183	2497	2594	5277	12092	15358	4657	2857	3314
MEAN	117	108	98.2	70.4	89.2	83.7	176	390	512	150	92.2	110
MAX	130	124	151	87	105	100	385	816	1120	222	105	124
MIN	106	62	53	47	60	68	80	246	164	97	76	95
AC-FT	7170	6450	6040	4330	4950	5150	10470	23980	30460	9240	5670	6570

CAL YR 1980 TOTAL 94870 MEAN 259 MAX 1940 MIN 53 AC-FT 188200
WTR YR 1981 TOTAL 60738 MEAN 166 MAX 1120 MIN 47 AC-FT 120500

NOTE.--NO GAGE-HEIGHT RECORD Feb. 5 to Mar. 20.

09304200 WHITE RIVER ABOVE COAL CREEK, NEAR MEEKER, CO

LOCATION.--Lat 40°00'18", long 107°49'29", in NW¼NW¼ sec.3, T.1 S., R.93 W., Rio Blanco County, Hydrologic Unit 14050005, on left bank 40 ft (12 m) downstream from county road bridge, 2.3 mi (3.7 km) upstream from Coal Creek, and 5.0 mi (8.0 km) southeast of Meeker.

DRAINAGE AREA.--648 mi² (1,678 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1961 to current year.

REVISED RECORDS.--WDR CO-79-3: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 6,400 ft (1,951 m), from topographic map. Oct. 1, 1961, to Sept. 30, 1976, at site 76 ft (23 m) upstream at datum 2.0 ft (0.610 m) higher.

REMARKS.--Records good. Diversions above station for irrigation of about 8,000 acres (32.4 km²) above station and about 4,000 acres (16.2 km²) below.

AVERAGE DISCHARGE.--20 years, 536 ft³/s (15.18 m³/s), 388,300 acre-ft/yr (479 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,900 ft³/s (139 m³/s) May 29, 1979, gage height, 5.97 ft (1.820 m); minimum daily, 6.5 ft³/s (0.18 m³/s) July 19-21, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,910 ft³/s (54.1 m³/s) at 0700 June 9, gage height, 4.49 ft (1.369 m), no peak above base of 2,000 ft³/s (57 m³/s); minimum daily, 72 ft³/s (2.04 m³/s) Aug. 29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	307	336	300	250	250	244	219	887	1300	167	143	116
2	273	333	300	260	250	242	262	868	1330	216	143	97
3	236	330	300	265	240	244	277	1290	1520	215	137	102
4	225	328	300	270	250	246	266	1070	1570	213	133	104
5	225	326	300	270	250	236	228	868	1510	186	121	113
6	226	325	300	270	270	247	262	833	1480	190	121	134
7	226	325	300	250	260	243	270	748	1520	168	121	146
8	229	328	300	260	270	237	254	652	1540	162	118	137
9	222	326	280	260	280	228	250	598	1470	165	116	123
10	227	323	260	260	270	231	294	539	1340	258	114	134
11	234	321	280	250	230	229	397	531	1210	220	122	169
12	238	318	300	250	250	243	396	500	957	303	127	177
13	255	337	295	260	270	241	390	468	701	339	144	176
14	279	327	295	260	260	238	406	434	601	306	157	180
15	305	288	310	260	260	233	446	424	561	285	154	209
16	301	283	300	270	260	236	476	432	475	260	154	215
17	324	286	290	270	270	250	529	466	401	251	148	214
18	353	297	280	260	270	241	575	428	389	265	142	221
19	355	317	280	250	280	235	669	389	354	276	137	228
20	359	312	280	250	268	238	708	415	287	278	145	229
21	357	314	280	240	251	240	575	449	270	261	146	232
22	356	310	280	250	248	234	577	452	243	238	147	235
23	341	325	280	250	247	233	531	467	219	215	135	225
24	317	325	270	250	256	241	600	480	195	214	134	216
25	324	321	265	250	255	230	729	504	163	230	142	214
26	340	302	265	240	255	243	832	573	188	248	136	208
27	294	288	270	260	251	249	858	731	212	230	133	206
28	326	310	270	250	244	220	828	994	262	217	105	212
29	317	310	260	250	---	230	875	1180	230	207	72	221
30	298	310	250	240	---	217	927	1170	184	202	96	220
31	341	---	260	250	---	196	---	1320	---	176	138	---
TOTAL	9010	9481	8800	7925	7215	7315	14906	21160	22682	7161	4081	5413
MEAN	291	316	284	256	258	236	497	683	756	231	132	180
MAX	359	337	310	270	280	250	927	1320	1570	339	157	235
MIN	222	283	250	240	230	196	219	389	163	162	72	97
AC-FT	17870	18810	17450	15720	14310	14510	29570	41970	44990	14200	8090	10740

CAL YR 1980 TOTAL 202036 MEAN 552 MAX 3020 MIN 151 AC-FT 400700
WTR YR 1981 TOTAL 125149 MEAN 343 MAX 1570 MIN 72 AC-FT 248200

NOTE.--NO GAGE-HEIGHT RECORD JAN. 15 TO FEB. 19.

09304200 WHITE RIVER ABOVE COAL CREEK, NEAR MEEKER, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--July 1978 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: July 1978 to current year.
WATER TEMPERATURES: July 1978 to current year.

INSTRUMENTATION.--Water-quality monitor since July 1978.

REMARKS.--Daily maximum and minimum specific-conductance data available in district office.

COOPERATION.--Chemical quality data are furnished by the U.S. Bureau of Reclamation.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 484 micromhos June 23, 1981; minimum, 152 micromhos June 14, 1980.
WATER TEMPERATURES: Maximum, 22.0°C July 8, 1981; minimum, 0.0°C many days during winter months.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 484 micromhos June 23; minimum, 167 micromhos June 10.
WATER TEMPERATURES: Maximum, 22.0°C July 8; minimum, 0.0°C many days during November to April.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	HARD-NESS (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)
OCT										
03...	1435	224	403	--	8.3	11.0	200	62	11	3.9
10...	1325	227	400	--	8.1	10.0	200	62	11	3.9
20...	1425	354	380	--	8.0	7.0	190	58	11	3.7
27...	1445	342	370	--	7.9	3.0	180	55	10	3.4
NOV										
03...	1340	326	360	--	8.1	5.0	190	57	11	4.1
12...	1330	318	380	--	8.5	7.0	190	57	11	3.4
18...	1430	260	400	--	8.0	.0	220	67	12	4.1
25...	1100	322	370	--	7.8	1.0	190	59	11	3.4
DEC										
01...	1050	285	370	--	7.8	1.5	190	58	11	3.9
08...	1100	275	365	--	7.7	1.0	190	59	10	3.7
15...	1045	248	370	--	7.9	.0	200	62	11	3.4
22...	1110	218	350	--	7.9	2.0	190	60	11	3.4
29...	1100	206	350	--	7.5	1.0	200	61	11	3.7
JAN										
06...	1000	188	320	--	7.5	.0	200	62	11	3.4
19...	1010	E250	390	--	7.7	.0	200	62	11	3.7
26...	0945	E240	435	--	8.3	.0	210	65	12	3.9
FEB										
03...	1110	E240	430	--	8.5	.0	190	59	11	3.7
09...	1020	E280	420	--	8.4	.0	210	64	11	3.4
17...	1100	E270	380	--	8.2	1.5	200	61	11	3.7
23...	1015	224	400	393	8.5	.5	200	62	11	3.7
MAR										
02...	1000	245	400	386	8.2	2.0	200	62	11	3.7
09...	1015	224	390	392	8.2	2.0	200	62	11	3.9
16...	1105	239	400	389	8.4	4.0	200	62	11	3.4
23...	1530	221	420	397	8.6	8.5	200	62	11	3.7
31...	1045	158	410	395	8.4	1.0	200	61	11	3.7
APR										
07...	1000	275	460	393	8.1	5.5	200	62	11	3.7
13...	1300	382	360	363	8.3	10.0	180	54	9.8	3.4
20...	1230	680	310	278	8.0	7.5	140	41	7.8	3.0
27...	1045	880	260	250	7.9	7.0	120	38	6.8	2.5
MAY										
04...	1115	1070	240	245	7.9	6.0	120	38	6.8	2.3
11...	1025	490	330	282	7.8	6.5	140	42	8.7	3.0
18...	1115	475	300	318	8.1	9.0	150	47	8.8	3.4
26...	1300	596	280	292	7.9	10.0	150	46	8.8	3.2
JUN										
01...	1030	1380	280	227	7.6	8.0	120	35	6.8	2.1
08...	1440	1550	220	181	7.8	13.0	91	28	5.4	2.1
15...	0945	620	280	275	7.8	7.0	130	39	8.3	3.2
22...	1000	251	370	357	7.8	13.5	180	56	10	4.6
29...	1005	239	370	361	7.9	14.0	190	57	11	4.8
JUL										
06...	1240	184	400	381	8.3	18.5	200	62	11	4.8

09304200 WHITE RIVER ABOVE COAL CREEK, NEAR MEEKER, CO--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE FET-FLD (MG/L AS HCO3)	CAR-BONATE FET-FLD (MG/L AS CO3)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)
OCT										
03...	.1	1.0	116	12	115	90	.7	273	.37	165
10...	.1	1.0	124	7	114	92	2.1	276	.38	169
20...	.1	1.0	118	0	113	85	2.8	248	.34	237
27...	.1	1.0	123	0	101	80	2.1	246	.33	227
NOV										
03...	.1	1.0	122	0	117	80	1.4	285	.39	251
12...	.1	1.0	121	4	106	81	1.4	247	.34	212
18...	.1	1.0	140	0	115	105	1.4	298	.41	209
25...	.1	1.0	131	0	107	85	.7	258	.35	224
DEC										
01...	.1	1.0	133	0	109	83	2.1	260	.35	200
08...	.1	1.0	137	0	112	87	2.1	252	.34	187
15...	.1	1.0	137	0	113	92	2.1	257	.35	172
22...	.1	1.0	134	0	110	87	1.4	235	.32	138
29...	.1	1.0	134	0	110	90	1.4	302	.41	168
JAN										
06...	.1	1.0	133	0	109	89	.0	300	.41	152
19...	.1	1.0	132	0	108	92	1.4	258	.35	104
26...	.1	1.0	153	0	126	93	1.4	287	.39	116
FEB										
03...	.1	1.0	121	5	107	86	2.1	254	.35	103
09...	.1	1.0	136	0	112	92	2.8	269	.37	109
17...	.1	1.0	101	15	108	92	2.1	247	.34	158
23...	.0	1.0	137	0	113	93	2.1	251	.34	152
MAR										
02...	.0	1.0	129	3	111	93	1.4	260	.35	172
09...	.0	1.0	134	0	--	93	.0	280	.38	169
16...	.0	1.0	127	4	--	93	1.4	270	.37	174
23...	.0	1.0	122	4	--	91	1.4	259	.35	155
31...	.0	1.0	132	0	--	89	2.1	268	.36	114
APR										
07...	.0	1.0	134	0	--	84	.7	261	.35	194
13...	.0	1.0	128	0	--	77	1.1	244	.33	252
20...	.0	1.0	108	0	--	50	2.5	185	.25	340
27...	.0	1.0	107	0	--	38	.7	170	.23	404
MAY										
04...	.0	1.0	100	4	--	41	.0	163	.22	471
11...	.0	1.0	124	0	--	48	2.5	187	.25	247
18...	.0	1.0	120	3	--	52	1.1	202	.27	259
26...	.0	1.0	126	0	--	44	1.1	166	.23	267
JUN										
01...	.0	1.0	107	0	--	28	1.1	125	.17	466
08...	.0	1.0	72	5	--	24	2.8	118	.16	494
15...	.0	1.0	123	0	--	44	.7	155	.21	259
22...	.0	1.0	145	0	--	65	1.1	209	.28	142
29...	.0	2.0	124	11	--	63	.4	210	.29	136
JUL										
06...	7.0	1.0	145	1	--	73	1.8	226	.31	112

09304200 WHITE RIVER ABOVE COAL CREEK, NEAR MEEKER, CO--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	SPECIFIC CONDUCTANCE LAB (UMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	HARDNESS (MG/L AS CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)
JUL										
20...	0935	272	380	371	7.9	13.5	190	59	10	4.8
28...	1025	221	400	452	8.1	13.5	200	61	11	5.1
AUG										
03...	0930	142	430	407	8.0	15.0	220	66	13	5.5
10...	1145	110	420	433	8.1	14.0	230	70	13	5.8
17...	1030	152	430	469	--	14.0	180	54	12	5.1
25...	1110	146	420	401	--	14.0	210	65	12	5.3
31...	1130	138	420	409	8.2	15.5	210	62	13	5.3
SEP										
11...	1050	166	400	420	8.2	13.0	210	64	12	5.8
15...	1445	221	400	570	8.5	14.5	210	62	12	5.5
25...	1035	215	405	440	8.0	12.0	220	69	12	4.1

DATE	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE FET-FLD (MG/L AS HCO3)	CARBONATE FET-FLD (MG/L AS CO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, DISSOLVED (TONS PER DAY)
JUL									
20...	.0	1.0	140	3	70	3.6	221	.30	162
28...	.0	1.0	149	0	79	9.9	241	.33	144
AUG									
03...	.0	1.0	153	0	81	3.6	245	.33	93.9
10...	.0	2.0	159	0	96	3.6	269	.37	79.9
17...	.0	1.0	118	0	97	1.8	228	.31	93.6
25...	.0	1.0	153	0	93	4.3	255	.35	101
31...	.0	2.0	148	2	89	4.3	250	.34	93.1
SEP									
11...	.0	2.0	151	0	85	3.6	245	.33	110
15...	1.0	2.0	142	2	82	3.2	338	.46	202
25...	.0	2.0	148	0	94	2.1	255	.35	148

09304200 WHITE RIVER ABOVE COAL CREEK, NEAR MEEKER, CO--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	405	376	382	391	412	407	413	248	266	395	426	440
2	407	385	392	397	427	410	420	256	269	382	423	453
3	403	387	389	399	435	406	410	271	261	369	426	451
4	402	375	387	390	426	402	408	246	252	383	425	450
5	402	374	386	398	421	409	420	262	253	395	429	449
6	403	375	383	405	420	404	439	284	242	400	432	436
7	403	374	383	416	424	401	463	299	245	404	434	428
8	401	378	387	420	415	406	461	309	243	408	436	427
9	405	378	397	421	403	414	465	341	226	408	442	432
10	404	384	418	415	406	414	416	342	230	383	444	428
11	400	388	418	417	445	409	379	340	236	386	438	410
12	397	383	403	421	411	409	352	349	253	374	437	414
13	388	380	411	417	412	412	358	333	275	370	433	421
14	385	384	412	428	404	415	371	314	297	377	429	413
15	381	399	391	418	394	410	354	322	310	379	433	410
16	382	421	383	403	402	413	337	318	327	385	431	---
17	369	428	389	396	405	400	322	306	337	385	429	---
18	370	415	393	408	399	404	318	322	342	374	431	---
19	376	403	388	400	404	414	320	359	363	376	431	---
20	376	410	399	400	401	409	313	344	380	381	430	---
21	376	401	390	410	406	410	330	341	379	386	421	---
22	373	402	385	420	412	407	332	351	383	393	419	---
23	370	380	384	412	413	405	341	331	382	397	424	---
24	381	376	400	407	394	390	333	330	392	397	424	---
25	379	375	385	400	406	394	297	345	391	393	416	---
26	369	384	383	432	405	397	282	326	377	392	422	---
27	368	397	395	407	402	390	267	309	379	394	427	---
28	376	381	387	397	409	399	265	294	362	399	429	---
29	385	379	388	402	---	409	262	274	370	404	434	---
30	376	383	400	404	---	406	252	243	388	410	437	---
31	374	---	390	406	---	408	---	250	---	423	427	---
MEAN	387	389	393	408	411	406	357	308	314	390	430	431

WTR YR 1981 MEAN 383 MAX 465 MIN 226

09304200 WHITE RIVER ABOVE COAL CREEK, NEAR MEEKER, CO--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	13.0	7.5	5.5	2.0	2.5	.5	2.0	.0	.5	.0	4.0	1.5
2	12.0	7.0	5.5	2.0	3.0	.5	2.5	.0	.0	.0	4.0	2.0
3	11.0	6.0	5.5	2.0	5.5	2.5	2.5	.0	.5	.0	4.0	2.0
4	12.0	6.0	7.5	4.0	4.0	2.5	3.5	.5	.5	.0	6.0	1.5
5	12.0	6.5	7.0	3.5	3.5	2.0	3.5	1.5	.5	.0	6.0	1.5
6	12.0	7.0	6.0	3.5	3.5	1.5	2.0	.0	.5	.0	5.0	1.0
7	12.0	6.5	7.5	4.0	2.5	1.0	1.0	.0	.0	.0	6.0	.0
8	12.0	7.0	7.0	4.5	2.0	.5	.5	.0	.5	.0	7.0	2.5
9	11.5	6.5	6.5	3.0	1.0	.0	.5	.0	1.0	.0	6.0	1.0
10	10.5	6.0	6.0	2.5	.0	.0	1.0	.0	.0	.0	6.5	1.5
11	10.0	5.5	6.0	2.0	.0	.0	.5	.0	.0	.0	4.5	1.0
12	8.5	6.0	7.0	5.0	.5	.0	.0	.0	.5	.0	6.0	2.5
13	10.0	7.5	6.0	3.0	.0	.0	.0	.0	2.5	.0	7.0	2.5
14	10.0	7.0	2.5	.5	.5	.0	.0	.0	2.5	.0	6.5	1.5
15	8.0	5.5	.5	.0	.5	.0	1.0	.0	4.0	.5	7.5	1.5
16	5.0	3.0	.0	.0	1.5	.0	1.0	.0	4.0	.0	7.0	2.5
17	4.5	1.5	.5	.0	2.5	.0	2.0	.0	3.0	.5	6.0	1.5
18	5.5	3.0	.0	.0	2.5	.0	2.0	.0	4.0	1.0	6.0	1.0
19	7.5	3.5	.5	.0	2.0	.0	1.5	.0	5.0	1.0	6.5	2.0
20	7.0	3.0	.5	.0	2.0	.0	2.5	.0	4.0	.5	6.5	4.0
21	7.0	3.0	1.0	.0	2.5	.0	1.5	.0	4.0	.0	5.0	2.5
22	7.0	3.5	1.0	.0	4.0	1.5	1.5	.0	4.0	.0	6.5	.5
23	5.0	1.5	2.0	.0	3.5	1.0	2.0	.0	5.0	.0	8.5	3.0
24	5.0	.5	2.0	.5	2.0	.0	2.0	.0	5.0	.0	6.5	3.0
25	5.0	.5	2.0	.0	4.0	1.0	1.5	.0	5.0	.5	6.5	.5
26	4.0	1.5	1.0	.0	4.0	2.0	.0	.0	3.5	1.5	10.0	4.0
27	3.5	2.0	.0	.0	3.5	1.5	1.0	.0	5.0	1.5	8.5	5.5
28	3.0	.0	1.0	.0	3.5	1.5	3.0	.5	5.0	1.5	6.5	3.0
29	3.5	.0	2.5	.0	2.5	.0	3.0	1.0	---	---	7.5	1.5
30	5.0	.5	3.5	1.5	2.0	.0	2.0	.0	---	---	5.5	1.0
31	5.5	2.0	---	---	2.0	.0	.5	.0	---	---	6.0	.0
MONTH	13.0	.0	7.5	.0	5.5	.0	3.5	.0	5.0	.0	10.0	.0

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	8.0	1.0	13.0	7.5	13.0	7.5	17.5	15.0	21.0	14.5	17.0	11.5
2	9.0	3.0	11.5	9.0	13.0	8.0	19.5	13.5	20.5	13.5	16.0	12.5
3	8.0	3.5	10.0	5.5	11.5	9.0	19.0	13.0	21.0	14.0	17.0	12.5
4	4.0	1.5	11.0	4.5	13.5	8.0	20.5	13.0	21.5	14.5	17.0	12.0
5	7.0	.0	10.5	6.5	14.0	8.5	21.0	13.0	21.5	13.5	15.0	13.5
6	9.5	2.5	11.5	7.5	14.0	9.0	20.5	14.0	20.0	13.5	16.0	12.5
7	8.0	4.5	10.0	6.0	14.0	10.0	21.5	14.5	20.0	13.5	15.0	13.0
8	7.5	3.0	7.5	5.5	14.5	9.5	22.0	15.0	20.0	13.0	15.5	11.5
9	11.5	3.5	10.0	4.0	14.5	9.5	21.0	15.5	20.0	14.5	15.5	11.5
10	12.0	5.5	11.0	5.5	15.0	10.5	20.0	14.5	16.5	13.5	15.5	12.0
11	11.5	5.5	9.0	6.0	16.0	10.5	21.0	14.5	14.5	12.0	15.5	11.5
12	10.0	5.0	9.5	5.0	16.0	10.5	19.0	15.5	18.5	12.5	15.0	10.5
13	11.0	5.5	12.0	5.0	15.0	10.5	18.0	14.5	17.0	13.5	14.5	11.0
14	11.0	5.0	13.5	7.0	11.5	8.5	20.5	14.0	16.5	13.0	15.5	10.5
15	10.5	6.5	11.5	8.5	13.0	6.5	20.5	14.0	17.5	13.0	15.5	10.5
16	10.0	6.0	9.5	8.0	14.5	7.5	17.5	14.5	19.0	12.5	---	---
17	11.0	5.5	9.5	7.0	16.0	10.0	16.0	13.0	19.0	12.5	---	---
18	11.0	6.0	13.5	7.0	14.5	10.0	19.0	12.5	18.0	12.5	---	---
19	11.5	7.0	11.5	8.0	17.0	9.5	20.5	14.0	18.0	13.0	---	---
20	9.0	5.0	11.0	8.5	18.5	11.5	19.5	12.5	18.0	13.5	---	---
21	8.5	5.0	9.5	6.5	18.5	11.5	20.5	12.5	16.0	13.0	---	---
22	10.0	5.5	9.5	6.5	19.5	12.0	20.5	13.0	18.0	12.0	---	---
23	12.5	5.0	12.0	7.5	17.0	12.0	19.0	12.0	18.0	12.5	---	---
24	13.0	6.5	12.0	7.5	20.0	12.0	19.5	13.5	16.0	13.0	---	---
25	13.0	7.0	11.0	8.5	21.0	12.5	20.5	14.0	18.5	12.0	---	---
26	12.5	6.5	11.5	6.0	20.5	14.0	19.0	14.0	19.0	13.0	---	---
27	11.0	6.5	12.0	9.5	20.0	14.5	19.0	12.0	19.0	14.0	---	---
28	12.5	7.0	11.5	8.5	18.0	14.5	19.5	12.5	20.0	13.0	---	---
29	13.0	7.0	11.0	8.5	19.5	12.5	18.5	13.0	18.0	13.5	---	---
30	13.0	7.5	13.5	7.5	20.5	13.0	18.0	13.0	19.0	13.0	---	---
31	---	---	11.5	8.5	---	---	20.5	13.0	16.5	13.5	---	---
MONTH	13.0	.0	13.5	4.0	21.0	6.5	22.0	12.0	21.5	12.0	17.0	10.5

09304200 WHITE RIVER ABOVE COAL CREEK, NEAR MEEKER, CO--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)
MAR				
31...	1100	158	7	3.0
APR				
07...	1000	275	7	5.2
13...	1355	382	14	14
20...	1230	680	72	132
27...	1050	880	93	221
MAY				
04...	1115	1070	77	222
04...	1120	1070	77	222
11...	1030	490	18	24
18...	1115	475	11	14
26...	1310	596	19	31
JUN				
01...	1030	1380	80	298
08...	1445	1550	54	226
15...	1000	620	8	13
22...	1000	251	2	1.4
29...	1015	239	2	1.3
JUL				
06...	1235	184	1	.50
13...	0940	330	16	14
20...	0940	272	9	6.6
28...	1030	221	5	3.0

09304480 COAL CREEK BELOW LITTLE BEAVER CREEK, NEAR MEEKER, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 40°01'52", long 107°49'18", in NE¼NW¼ sec.28, T.1 N., R.93 W., Rio Blanco County, Hydrologic Unit 14050005, 1.7 mi (2.7 km) upstream from mouth, 0.1 mi (0.2 km) downstream from Little Beaver Creek, and 4.6 mi (7.4 km) east of Meeker.

PERIOD OF RECORD.--July 1978 to current year.

COOPERATION.--Chemical quality data are furnished by U.S. Bureau of Reclamation.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	HARD-NESS (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)
OCT										
03...	1455	16	866	--	8.1	12.0	430	98	44	25
10...	1340	15	900	--	8.0	10.5	430	100	43	26
20...	1450	E15	1480	--	8.0	8.5	770	152	95	64
27...	1450	15	1000	--	7.9	3.0	500	110	54	36
NOV										
03...	1405	9.7	1450	--	8.0	5.5	660	135	78	55
12...	1350	9.0	1340	--	8.0	7.0	680	140	80	59
18...	1445	9.5	1050	--	7.8	.0	560	123	61	40
25...	1050	10	1000	--	7.8	1.5	550	119	61	39
DEC										
01...	1135	8.2	1100	--	7.8	1.5	580	124	67	46
08...	1110	9.0	1100	--	7.8	1.5	620	133	70	48
15...	1110	E9.0	1150	--	7.8	.0	600	131	67	45
22...	1125	9.0	1100	--	7.9	3.0	610	129	69	48
29...	1110	9.0	1270	--	7.7	.5	640	130	76	53
JAN										
06...	1015	6.0	950	--	8.0	.0	580	123	65	45
19...	1030	7.5	1100	--	7.9	.0	610	126	71	48
26...	1000	9.0	1100	--	8.1	.0	670	139	78	52
FEB										
03...	1125	8.0	1500	--	8.0	.0	780	161	92	67
09...	1040	E8.0	1100	--	8.2	.0	690	141	81	55
17...	1230	E9.0	1300	--	8.0	2.5	730	141	91	68
23...	1030	8.0	1050	1110	8.1	.5	560	118	63	44
MAR										
02...	1015	9.5	1100	1150	8.0	1.5	580	123	65	50
09...	1000	E7.0	1380	1470	7.9	1.5	700	146	82	68
16...	1115	13	1200	1340	8.2	5.0	650	134	77	61
23...	1555	9.5	1850	1850	8.0	11.5	880	173	109	107
31...	1030	13	1550	1420	8.1	1.0	710	122	98	79
APR										
07...	0945	16	1800	2010	8.1	5.5	990	202	119	120
13...	1245	9.0	1500	1560	8.1	13.0	770	159	90	78
20...	1210	4.5	1600	1960	8.2	12.0	940	184	117	97
27...	1030	7.0	1100	1470	8.1	10.0	740	148	89	72
MAY										
04...	1100	12	1200	1720	7.9	9.5	840	168	102	97
11...	1010	5.0	850	885	7.8	6.5	430	97	46	32
18...	1215	15	700	783	8.0	12.5	370	92	34	23
26...	1240	40	500	638	7.7	13.0	320	82	29	17
JUN										
01...	1010	57	625	677	7.7	12.0	330	81	31	21
08...	1430	7.0	1400	1280	8.1	21.0	670	146	75	45
15...	0935	28	410	580	7.7	10.0	290	74	27	12
22...	0950	30	550	569	7.8	18.0	290	79	23	9.7
29...	0950	39	600	762	7.8	14.0	400	100	37	18
JUL										
13...	0930	92	660	672	7.5	17.0	340	87	30	15

E ESTIMATED.

09304400 COAL CREEK BELOW LITTLE BEAVER CREEK, NEAR MEEKER, CO--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE FET-FLD (MG/L AS HCO3)	CAR-BONATE FET-FLD (MG/L AS CO3)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)
OCT										
03...	.5	2.0	238	0	195	276	5.7	632	.86	27.3
10...	.5	2.0	221	0	181	291	12	632	.86	25.6
20...	1.0	5.0	336	0	275	579	32	1160	1.6	47.0
27...	.7	2.0	259	0	213	332	16	762	1.0	30.9
NOV										
03...	.9	3.0	311	0	255	477	27	1040	1.4	27.2
12...	1.0	4.0	294	0	241	509	25	1060	1.4	25.8
18...	.7	3.0	287	0	235	363	16	816	1.1	20.9
25...	.7	2.0	278	0	228	349	15	793	1.1	21.4
DEC										
01...	.8	3.0	289	0	237	397	19	887	1.2	19.6
08...	.8	3.0	289	0	237	452	23	919	1.3	22.3
15...	.8	3.0	320	0	262	420	22	898	1.2	21.8
22...	.9	3.0	290	0	238	429	23	899	1.2	21.8
29...	.9	3.0	309	0	253	437	26	965	1.3	23.4
JAN										
06...	.8	2.0	296	0	243	384	23	840	1.1	13.6
19...	.9	3.0	320	0	262	402	23	909	1.2	18.4
26...	.9	3.0	323	0	265	439	25	789	1.1	19.2
FEB										
03...	1.0	4.0	354	0	290	564	36	1190	1.6	25.7
09...	.9	3.0	339	0	278	464	26	1030	1.4	22.2
17...	1.1	7.0	328	0	269	564	31	1130	1.5	27.5
23...	1.0	4.0	283	0	232	389	19	831	1.1	17.9
MAR										
02...	1.0	4.0	304	0	250	423	20	870	1.2	22.3
09...	1.0	5.0	282	0	--	572	31	1140	1.6	21.5
16...	1.0	3.0	288	0	--	524	26	1020	1.4	35.8
23...	2.0	5.0	334	0	--	795	44	1490	2.0	38.2
31...	1.0	4.0	139	26	--	626	30	1170	1.6	41.1
APR										
07...	2.0	5.0	339	0	--	875	50	1700	2.3	73.4
13...	1.0	4.0	307	0	--	629	41	1240	1.7	30.1
20...	1.0	6.0	338	0	--	792	50	1520	2.1	18.5
27...	1.0	4.0	282	10	--	575	38	1180	1.6	22.3
MAY										
04...	2.0	7.0	302	0	--	711	38	1430	1.9	46.3
11...	1.0	2.0	210	6	--	289	14	652	.89	8.8
18...	1.0	3.0	203	0	--	241	7.1	551	.75	22.3
26...	.0	2.0	198	0	--	164	5.0	396	.54	42.8
JUN										
01...	1.0	2.0	204	0	--	183	7.8	426	.58	65.6
08...	1.0	2.0	307	0	--	422	16	1040	1.4	19.7
15...	.0	2.0	199	0	--	145	5.7	363	.49	27.4
22...	.0	2.0	173	12	--	137	4.3	353	.48	28.6
29...	.0	4.0	260	0	--	201	7.8	496	.67	52.2
JUL										
13...	.0	4.0	218	0	--	178	6.4	427	.58	106

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	HARD-NESS (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)
JUL										
20...	0925	90	625	657	7.6	15.0	330	86	27	15
28...	1010	25	950	979	7.8	13.0	540	130	52	32
AUG										
03...	0910	33	765	717	7.8	17.0	400	105	34	17
10...	1230	10	1100	1240	7.9	14.5	730	173	73	38
17...	1040	10	--	983	--	14.0	520	118	57	30
25...	1055	8.0	1300	1170	--	14.0	670	143	75	40
31...	1115	14	625	698	7.9	15.0	380	94	35	17
SEP										
11...	1035	22	530	740	7.9	13.0	360	86	35	16
15...	1430	19	690	700	8.3	15.0	350	86	32	16
25...	1005	25	650	718	7.9	10.5	350	90	30	15

09304480 COAL CREEK BELOW LITTLE BEAVER CREEK, NEAR MEEKER, CO

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE FET-FLD (MG/L AS HCO3)	CAR- BONATE FET-FLD (MG/L AS CO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)
JUL									
20...	.0	2.0	204	0	169	6.4	405	.55	98.4
28...	1.0	3.0	290	0	331	16	706	.96	47.7
AUG									
03...	.0	2.0	219	0	221	9.2	495	.67	44.1
10...	1.0	3.0	326	0	514	16	978	1.3	26.4
17...	1.0	2.0	220	0	398	16	727	.99	19.6
25...	1.0	2.0	300	0	464	18	888	1.2	19.2
31...	.0	3.0	217	0	213	8.5	476	.65	18.0
SEP									
11...	.0	3.0	227	0	192	7.1	450	.61	26.7
15...	.0	2.0	184	16	175	7.1	424	.58	21.8
25...	.0	2.0	220	0	186	7.1	438	.60	29.6

09304500 WHITE RIVER NEAR MEEKER, CO

LOCATION.--Lat 40°02'01", long 107°51'42", in NE¼ sec.30, T.1 N., R.93 W., Rio Blanco County, Hydrologic Unit 14050005, on left bank 1.0 mi (1.6 km) upstream from Curtis Creek and 2.5 mi (4.0 km) east of Meeker.

DRAINAGE AREA.--755 mi^2 (1,955 km^2).

PERIOD OF RECORD.--June 1901 to December 1906, October 1909 to current year. Monthly discharge only for some periods, published in WSP 1313. Published as "at Meeker" 1901-13.

REVISED RECORDS.--WDR CO-79-3: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 6,300 ft (1,920 m), from topographic map. Prior to Oct. 31, 1906, and May 7 to Aug. 13, 1910, nonrecording gage, and Aug. 14, 1910, to Oct. 19, 1913, water-stage recorder, at site 2.5 mi (4.0 km) downstream at different datum. Oct. 20, 1913, to Sept. 30, 1971, water-stage recorder at present site, at datum 3.00 ft (0.914 m) higher prior to Oct. 1, 1933, and at datum 2.00 ft (0.610 m) higher thereafter.

REMARKS.--Records good except those for period of no gage-height record, which are poor. Diversions above station for irrigation of about 12,000 acres (48.6 km^2) above station and about 3,000 acres (12.1 km^2) below. Several observations of specific conductance and water temperature were obtained and are published elsewhere in this report.

AVERAGE DISCHARGE.--77 years, 617 ft^3/s (17.47 m^3/s), 447,000 acre-ft/yr (551 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge observed, 6,370 ft^3/s (180 m^3/s) June 16, 1921, gage height, 7.60 ft (2.316 m), present datum, from rating curve extended above 4,700 ft^3/s (130 m^3/s); minimum daily, 78 ft^3/s (2.21 m^3/s) July 16, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,920 ft^3/s (54.4 m^3/s) at 0800 June 9, gage height, 4.37 ft (1.332 m); no peak above base of 2,100 ft^3/s (59 m^3/s); minimum daily, 141 ft^3/s (3.99 m^3/s) Aug. 29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	318	370	331	277	250	269	310	891	1390	294	200	212
2	284	368	328	280	170	267	314	1000	1400	355	206	167
3	261	364	328	284	200	270	330	1260	1490	378	192	180
4	233	365	328	288	220	274	308	1040	1510	356	183	180
5	231	365	328	293	210	274	308	858	1470	327	159	203
6	235	361	327	295	230	279	308	845	1450	314	173	234
7	228	362	324	220	220	274	316	746	1580	291	162	245
8	235	362	326	195	240	272	301	630	1710	277	144	234
9	219	359	309	195	260	260	297	567	1700	261	148	220
10	223	355	272	195	240	264	361	502	1590	365	159	228
11	233	351	318	195	200	264	423	493	1370	340	174	272
12	250	349	333	195	240	273	430	500	1140	437	182	284
13	274	358	311	195	250	265	425	449	925	465	204	290
14	309	368	306	195	250	264	450	418	785	390	225	298
15	363	332	339	195	260	266	462	393	675	358	220	316
16	345	317	333	200	260	268	487	390	575	339	220	315
17	376	305	316	210	270	270	534	419	502	338	212	308
18	404	318	310	210	270	275	575	467	460	358	203	314
19	400	356	304	210	300	273	666	415	417	359	199	322
20	392	354	300	210	285	277	714	406	357	353	212	323
21	388	330	296	215	270	289	572	463	348	313	229	324
22	378	313	297	220	271	275	572	490	323	285	215	322
23	376	317	300	220	264	278	517	512	312	267	195	315
24	348	324	292	220	277	294	588	527	290	278	195	300
25	353	328	288	220	280	276	714	542	285	309	209	285
26	392	325	294	180	280	287	823	587	253	306	197	276
27	406	304	296	200	274	327	856	702	283	337	188	270
28	383	309	296	220	267	308	819	1260	385	276	155	281
29	366	325	278	240	---	289	851	1300	360	276	141	290
30	386	327	264	250	---	300	892	1280	301	271	190	296
31	371	---	285	250	---	305	---	1380	---	245	256	---
TOTAL	9960	10241	9557	6972	7008	8626	15523	21732	25636	10118	5947	8104
MEAN	321	341	308	225	250	278	517	701	855	326	192	270
MAX	406	370	339	295	300	327	892	1380	1710	465	256	324
MIN	219	304	264	180	170	260	297	390	253	245	141	167
AC-FT	19760	20310	18960	13830	13900	17110	30790	43110	50850	20070	11800	16070

CAL YR 1980 TOTAL 219405 MEAN 599 MAX 2960 MIN 219 AC-FT 435200
WTR YR 1981 TOTAL 139424 MEAN 382 MAX 1710 MIN 141 AC-FT 276500

NOTE.--NO GAGE-HEIGHT RECORD Jan. 7 to Feb. 18.

09304550 CURTIS CREEK NEAR MEEKER, CO

WATER-QUALITY RECORDS

LOCATION.--Lat 40°02'22", long 107°52'53", in SE¼NW¼ sec.24, T.1 N., R.93 W., Rio Blanco County, Hydrologic Unit 14050005, 0.6 mi (1.0 km) upstream from mouth, 1.6 mi (2.6 km) east of Meeker.

PERIOD OF RECORD.--July 1978 to current year.

COOPERATION.--Chemical quality data are furnished by U.S. Bureau of Reclamation.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	HARD-NESS (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)
OCT										
03...	1515	.28	3940	--	7.7	12.0	1500	128	288	488
10...	1400	.28	5000	--	8.2	14.0	1600	140	308	552
20...	1510	.94	2650	--	8.3	12.0	1000	92	190.	304
27...	1510	.41	4800	--	8.1	4.0	1600	150	299	506
NOV										
03...	1450	.76	3700	--	8.2	7.5	1100	104	207	336
12...	1400	.18	6000	--	8.3	6.5	2300	205	430	736
18...	1500	.18	6000	--	7.9	.0	2400	230	439	730
25...	1035	.19	6000	--	7.9	.5	2200	200	403	661
DEC										
01...	1210	.19	6000	--	8.0	1.0	2200	200	412	696
08...	1130	.18	6000	--	8.0	1.0	2300	215	418	707
15...	1120	.19	5000	--	7.8	.0	2200	220	409	679
22...	1145	.19	5000	--	7.9	1.5	2200	205	400	684
29...	1120	.19	6000	--	7.8	.5	2300	220	421	730
JAN										
06...	1030	.19	5000	--	7.9	.5	2300	225	433	736
19...	1045	.19	6000	--	7.8	.0	2600	260	467	851
26...	1015	.20	6000	--	7.9	.0	2200	215	397	679
FEB										
03...	1140	.20	4800	--	7.9	.0	1900	185	345	575
09...	1050	.19	5500	--	7.9	.0	2000	205	369	604
17...	1040	.61	3750	--	8.0	1.5	1700	176	305	506
23...	1045	.78	3500	3980	8.0	.0	1600	164	281	455
MAR										
02...	1030	1.3	3000	3360	8.0	.5	1300	144	234	400
09...	0945	.78	3750	3980	8.1	1.5	1600	164	278	478
16...	1130	1.1	2500	2820	8.1	5.0	1100	124	190	313
23...	1610	.85	4000	3360	8.3	13.0	1200	128	222	391
31...	1015	E3.5	2600	2790	8.2	.0	1000	92	188	322
APR										
07...	0930	3.8	2600	2890	8.2	5.5	1100	116	198	331
13...	1235	1.6	2250	2790	8.3	17.0	1000	104	190	322
20...	1230	1.4	2750	2940	8.3	13.5	1100	116	207	350
27...	1015	.92	2700	3620	8.2	10.0	1400	132	256	446
MAY										
04...	1045	3.0	1800	2970	8.2	11.0	1100	124	195	340
11...	0955	1.0	2900	3330	8.2	6.5	1300	128	232	405
18...	1230	1.2	2900	3090	8.4	19.0	1100	104	207	359
26...	1115	.82	2600	3300	8.2	17.0	1300	120	239	428
JUN										
01...	0955	.89	3600	3340	8.2	14.0	1200	88	249	432
08...	1415	.19	3950	3990	8.3	26.5	1500	136	288	497
15...	1010	.34	5800	5710	8.1	15.0	2100	155	427	771
22...	0940	.00	6000	6490	8.1	22.0	2600	205	497	897
29...	0930	.19	4750	5160	8.2	15.5	2000	175	381	707
JUL										
06...	1110	.31	3500	4670	8.2	20.0	1800	150	342	644

E ESTIMATED.

09304550 CURTIS CREEK NEAR MEEKER, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE FET-FLD (MG/L AS HCO3)	CAR- BONATE FET-FLD (MG/L AS CO3)	ALKA- LINITY LAB (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)
OCT										
03...	6.0	13	680	0	558	1780	144	3460	4.7	2.6
10...	6.0	16	686	0	563	1960	172	3740	5.1	2.8
20...	4.0	10	531	24	475	1030	94	2120	2.9	5.4
27...	6.0	13	674	0	553	1760	192	3560	4.8	3.9
NOV										
03...	4.0	11	644	0	528	1190	110	2320	3.2	4.8
12...	7.0	17	711	0	583	2730	305	5490	7.5	2.7
18...	7.0	18	827	0	678	2780	259	5380	7.3	2.6
25...	6.0	21	814	0	668	2370	280	4780	6.5	2.5
DEC										
01...	7.0	20	735	0	603	2500	325	5020	6.8	2.6
08...	7.0	14	756	0	620	2650	323	5200	7.1	2.5
15...	6.0	16	913	0	749	2680	224	4970	6.8	2.6
22...	6.0	13	769	0	630	2510	291	4890	6.7	2.5
29...	7.0	15	790	0	648	2680	307	5520	7.5	2.8
JAN										
06...	7.0	14	802	0	658	2670	312	5560	7.6	2.9
19...	7.0	17	933	0	765	3110	314	6190	8.4	3.2
26...	6.0	15	882	0	723	2410	270	4950	6.7	2.7
FEB										
03...	5.0	15	802	0	658	2110	204	4200	5.7	2.3
09...	6.0	15	827	0	678	2240	204	4480	6.1	2.3
17...	5.0	15	720	0	591	1820	252	3670	5.0	6.0
23...	5.0	13	729	0	598	1660	197	3290	4.5	6.9
MAR										
02...	5.0	13	644	0	528	1430	179	2890	3.9	10.1
09...	5.0	13	686	0	--	1650	241	3380	4.6	7.1
16...	4.0	9.0	604	0	--	1130	112	2160	2.9	6.2
23...	5.0	12	602	0	--	1370	162	2650	3.6	6.1
31...	4.0	11	400	47	--	1060	144	2210	3.0	23.9
APR										
07...	4.0	9.0	592	0	--	1120	133	2320	3.2	23.8
13...	4.0	11	578	0	--	1090	130	2290	3.1	9.9
20...	5.0	13	614	0	--	1190	126	2420	3.3	9.2
27...	5.0	11	675	0	--	1530	162	3190	4.3	7.9
MAY										
04...	4.0	13	576	0	--	1100	169	2480	3.4	20.1
11...	5.0	9.0	632	0	--	1350	162	2860	3.9	7.7
18...	5.0	11	426	50	--	1250	123	2360	3.2	7.7
26...	5.0	9.0	611	0	--	1370	144	2610	3.6	5.8
JUN										
01...	5.0	9.0	337	0	--	1470	151	2640	3.6	6.3
08...	6.0	10	647	0	--	1700	195	3730	5.1	1.9
15...	7.0	14	711	0	--	2870	277	4870	6.6	4.5
22...	8.0	16	772	0	--	3280	300	5580	7.6	.00
29...	7.0	14	735	0	--	2462	238	4340	5.9	2.2
JUL										
06...	7.0	16	718	0	--	2189	179	3870	5.3	3.2

09304550 CURTIS CREEK NEAR MEEKER, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	HARD-NESS (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)
JUL										
20...	0915	.00	3750	6170	8.1	13.0	2400	148	495	906
28...	0955	.00	4750	6020	8.1	14.0	2500	195	479	886
AUG										
03...	0900	.18	6600	6210	8.2	18.0	2500	185	491	914
10...	1245	.10	6000	6480	8.2	16.0	2600	195	525	949
17...	1100	.00	6000	6300	--	14.5	2500	180	500	920
25...	1040	.00	5500	6460	--	14.0	2600	210	506	943
31...	1055	.00	5500	6420	8.2	15.0	2600	170	531	932
SEP										
11...	1025	.14	4500	6390	8.3	12.5	2700	260	500	1024
15...	1420	.00	6000	6420	8.4	20.0	2600	210	494	1001
25...	0950	.10	5000	6460	8.1	9.0	2600	210	512	955

DATE	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE FET-FLD (MG/L AS HCO3)	CAR-BONATE FET-FLD (MG/L AS CO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)
JUL									
20...	8.0	16	619	0	3229	288	5390	7.3	.00
28...	8.0	18	759	0	3187	279	5420	7.4	.00
AUG									
03...	8.0	16	751	0	3433	89	5400	7.3	2.6
10...	8.0	22	770	0	3830	252	6150	8.4	1.7
17...	8.0	20	736	0	3502	298	5782	7.9	.00
25...	8.0	4.0	749	0	3584	295	5911	8.0	.00
31...	8.0	18	617	0	3557	337	5847	8.0	.00
SEP									
11...	9.0	22	752	0	3529	348	6052	8.2	2.3
15...	9.0	25	719	0	3475	334	5892	8.0	.00
25...	8.0	20	724	0	3475	334	5861	8.0	1.6

09304600 WHITE RIVER AT MEEKER, CO

LOCATION.--Lat 40°02'00", long 107°55'05", in NE¼NE¼ sec.27, T.1 N., R.94 W., Rio Blanco County, Hydrologic Unit 14050005, on right bank, at 10th Street bridge, 0.4 mi (0.6 km) upstream from Flag Creek, and 0.6 mi (1.0 km) downstream from Sulphur Creek.

DRAINAGE AREA.--808 mi² (2,093 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1978 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 6,200 ft (1,890 m), from topographic map.

REMARKS.--Records good. Diversions above station for irrigation of about 3,000 acres (12.1 km²) above station and about 12,000 acres (48.6 km²) below.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,290 ft³/s (150 m³/s) May 29, 1979, gage height, 7.13 ft (2.173 m); maximum gage height, about 12.0 ft (3.66 m) Jan. 31, 1979, ice jam; minimum daily discharge, 141 ft³/s (3.99 m³/s), Aug. 29, 1981.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,020 ft³/s (57.2 m³/s) at 0700 June 9, gage height, 5.88 ft (1.792 m); only peak above base of 2000 ft³/s (56.6 m³/s); minimum daily, 141 ft³/s (3.99 m³/s) Aug. 29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	336	391	339	280	268	257	269	897	1450	362	200	220
2	302	387	331	274	263	253	289	868	1460	400	206	197
3	282	386	335	276	256	257	302	1210	1570	445	192	208
4	262	387	333	278	282	257	283	1060	1580	412	183	206
5	263	386	329	285	275	249	254	881	1540	377	159	219
6	261	377	327	290	303	259	282	864	1520	353	173	243
7	258	377	332	264	279	264	286	780	1650	329	162	255
8	263	377	321	275	294	273	276	662	1770	316	144	248
9	253	376	307	272	307	257	270	615	1760	313	148	233
10	262	367	287	279	290	253	323	560	1640	425	159	250
11	269	365	318	274	242	241	380	554	1410	387	174	274
12	279	367	333	263	326	249	380	528	1200	502	182	287
13	311	421	311	279	289	242	374	488	997	537	204	294
14	353	400	306	272	269	241	376	455	864	446	225	290
15	406	336	339	276	275	241	417	449	754	400	220	303
16	381	326	333	288	275	242	442	464	662	373	220	338
17	423	335	316	286	270	265	489	514	595	367	212	310
18	448	351	310	270	273	255	528	492	542	386	203	317
19	441	379	307	269	274	249	603	466	495	387	199	329
20	435	366	300	271	282	252	660	506	427	377	212	323
21	426	365	297	255	265	262	535	565	413	337	229	329
22	421	350	307	270	260	253	542	577	382	312	215	320
23	413	353	307	271	256	255	493	595	365	267	195	301
24	384	356	284	267	268	269	553	604	343	278	195	299
25	398	357	301	272	271	254	669	641	324	309	209	302
26	424	340	294	251	271	263	788	721	323	306	197	289
27	424	339	288	301	264	295	828	913	380	337	188	285
28	397	396	284	270	257	281	801	1180	489	276	155	297
29	378	343	278	269	---	264	839	1330	458	276	141	297
30	402	342	264	259	---	272	880	1330	380	271	190	315
31	403	---	285	270	---	270	---	1450	---	245	262	---
TOTAL	10958	10998	9603	8476	7704	7994	14411	23219	27743	11108	5953	8378
MEAN	353	367	310	273	275	258	480	749	925	358	192	279
MAX	448	421	339	301	326	295	880	1450	1770	537	262	338
MIN	253	326	264	251	242	241	254	449	323	245	141	197
AC-FT	21740	21810	19050	16810	15280	15860	28580	46050	55030	22030	11810	16620

CAL YR 1980 TOTAL 228040 MEAN 623 MAX 2930 MIN 226 AC-FT 452300
WTR YR 1981 TOTAL 146545 MEAN 401 MAX 1770 MIN 141 AC-FT 290700

09304600 WHITE RIVER AT MEEKER, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1978 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: October 1978 to current year.
WATER TEMPERATURES: October 1978 to current year.

INSTRUMENTATION.--Water-quality monitor since October 1978.

REMARKS.--Daily maximum and minimum specific-conductance data available in district office.

COOPERATION.--Chemical quality data are furnished by the U.S. Bureau of Reclamation.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 810 micromhos Nov. 29, 1979; minimum, 208 micromhos May 24, 1979.
WATER TEMPERATURES: Maximum, 23.0°C July 21, 28, 30, 1980; minimum, 0.0°C on many days during winter months.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 784 micromhos Aug. 29; minimum, not determined.
WATER TEMPERATURES: Maximum, 20.5°C Aug. 20, 28; minimum, 0.0°C on days during November to January.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	SPECIFIC CONDUCTANCE LAB (UMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	HARDNESS (MG/L AS CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)
OCT										
03...	1410	274	613	--	8.2	11.5	230	66	17	34
10...	1135	266	660	--	8.2	9.0	260	75	17	39
20...	1400	440	550	--	8.4	8.0	230	64	16	26
27...	1430	430	540	--	8.4	4.0	210	61	15	26
NOV										
03...	1210	385	540	--	8.3	5.0	210	59	15	27
12...	1305	365	533	--	8.2	8.0	210	59	15	27
18...	1405	306	625	--	8.0	.0	260	75	18	37
25...	1012	360	575	--	7.9	.0	220	65	15	28
DEC										
01...	1020	334	540	--	7.9	2.0	220	65	15	29
08...	1035	326	540	--	7.9	1.5	230	69	15	29
15...	1010	338	560	--	7.9	.0	240	70	15	32
22...	1045	306	530	--	8.1	3.0	230	68	15	30
29...	1035	278	540	--	7.7	1.0	220	67	14	29
JAN										
06...	0940	274	510	--	8.1	.5	220	67	14	29
19...	0945	278	580	--	7.8	.5	230	68	14	32
26...	0930	250	575	--	8.2	.5	240	70	15	35
FEB										
03...	1050	230	600	--	8.4	.5	250	74	16	40
09...	1000	302	580	--	8.3	.5	240	70	15	34
17...	1405	250	600	--	8.4	4.0	230	66	16	34
23...	0940	254	620	572	8.3	1.5	230	68	15	32
MAR										
02...	0940	254	600	589	8.1	3.0	240	70	15	32
09...	1030	258	640	628	8.2	3.5	250	70	18	36
16...	1045	250	600	577	8.2	5.5	230	65	16	33
23...	1510	254	675	656	8.5	10.0	260	72	20	38
31...	0955	266	575	595	8.4	.0	230	68	16	33
APR										
07...	0920	322	575	619	8.2	6.5	260	74	19	34
13...	1140	375	450	502	8.4	10.0	210	60	14	24
20...	1120	644	420	358	8.1	7.5	160	46	9.8	15
27...	1000	864	380	326	7.8	8.5	140	42	8.3	12
MAY										
04...	1015	1100	340	344	7.8	6.5	150	42	10	12
11...	0945	566	422	333	7.9	8.5	130	40	8.4	14
18...	1245	485	435	484	8.5	10.5	190	54	13	23
26...	1040	744	420	427	8.0	10.0	180	54	12	17
JUN										
01...	0930	1540	350	299	7.8	9.5	140	39	9.6	9.2
08...	1350	1830	310	240	7.8	12.0	110	31	6.8	7.4
15...	0910	792	380	407	7.8	8.0	170	50	12	17
22...	0925	385	440	565	8.0	13.0	240	70	17	27
29...	0925	470	450	600	8.1	14.0	260	72	19	27
JUL										
06...	1055	360	460	629	8.3	15.5	280	79	19	29

09304600 WHITE RIVER AT MEEKER, CC--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE FET-FLD (MG/L AS HCO3)	CAR-BONATE FET-FLD (MG/L AS CO3)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)
OCT										
03...	1.0	2.0	143	0	118	126	41	398	.54	294
10...	1.0	2.0	154	7	138	140	48	431	.59	310
20...	.8	2.0	137	5	120	119	31	352	.48	418
27...	.8	2.0	140	0	115	110	29	377	.51	438
NOV										
03...	.8	2.0	131	0	107	110	31	381	.52	396
12...	.8	2.0	131	0	107	120	33	346	.47	341
18...	1.0	2.0	164	0	134	140	47	431	.59	356
25...	.8	2.0	149	0	122	120	34	360	.49	350
DEC										
01...	.9	2.0	148	0	121	110	37	383	.52	345
08...	.8	2.0	143	5	125	116	32	361	.49	318
15...	.9	2.0	156	0	128	126	43	370	.50	338
22...	.9	2.0	150	0	123	117	38	349	.47	288
29...	1.0	2.0	146	0	120	120	38	404	.55	303
JAN										
06...	.9	2.0	145	0	119	118	37	404	.55	299
19...	.9	2.0	131	4	114	118	39	362	.49	272
26...	1.0	2.0	152	0	125	120	45	411	.56	277
FEB										
03...	1.1	2.0	160	0	131	138	39	425	.58	264
09...	1.0	2.0	149	0	123	116	43	378	.51	308
17...	1.0	2.0	132	7	119	128	41	377	.51	254
23...	1.0	2.0	149	0	122	116	41	370	.50	254
MAR										
02...	1.0	2.0	154	0	126	124	40	382	.52	262
09...	1.0	2.0	153	0	--	147	43	432	.59	301
16...	1.0	2.0	100	13	--	143	39	368	.50	248
23...	1.0	2.0	135	8	--	158	44	437	.59	300
31...	1.0	2.0	129	9	--	136	41	393	.53	282
APR										
07...	1.0	2.0	140	9	--	150	37	419	.57	364
13...	1.0	2.0	139	0	--	94	30	348	.47	352
20...	1.0	2.0	124	0	--	61	19	234	.32	407
27...	.0	1.0	119	0	--	51	14	214	.29	499
MAY										
04...	.0	1.0	118	0	--	55	12	225	.31	668
11...	1.0	2.0	110	0	--	51	13	204	.28	312
18...	1.0	1.0	128	7	--	83	25	305	.41	399
26...	1.0	2.0	142	0	--	71	18	242	.33	486
JUN										
01...	.0	1.0	119	2	--	43	6.4	168	.23	699
08...	.0	1.0	91	2	--	34	6.4	149	.20	736
15...	1.0	2.0	146	0	--	71	22	245	.33	524
22...	1.0	2.0	186	6	--	95	33	341	.46	354
29...	1.0	2.0	240	0	--	103	30	371	.50	471
JUL										
06...	1.0	2.0	196	2	--	110	31	370	.50	360

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	HARD-NESS (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)
JUL										
20...	0900	370	510	557	8.0	16.0	260	74	18	26
28...	0940	290	570	575	8.2	15.5	240	68	17	31
AUG										
03...	0850	221	575	627	8.1	17.0	280	78	21	35
10...	1040	209	700	681	8.2	14.5	300	86	21	40
17...	1010	238	670	626	--	14.5	280	79	20	34
25...	1030	224	660	616	--	13.5	270	76	19	34
31...	1030	250	650	629	8.3	14.5	280	78	21	35
SEP										
11...	1010	294	580	640	8.2	12.0	270	78	19	29
15...	1400	330	580	570	8.7	15.0	250	71	17	25
25...	1500	302	560	580	8.3	12.5	220	68	12	4.1

09304600 WHITE RIVER AT MEEKER, CO--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE FET-FLD (MG/L AS HCO3)	CAR- BONATE FET-FLD (MG/L AS CO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)
JUL									
20...	1.0	2.0	184	1	111	30	353	.48	353
28...	1.0	2.0	146	0	115	33	346	.47	271
AUG									
03...	1.0	2.0	164	7	134	45	402	.55	240
10...	1.0	2.0	197	6	138	49	438	.60	247
17...	1.0	2.0	176	13	128	41	402	.55	258
25...	1.0	2.0	169	0	121	39	383	.52	232
31...	1.0	2.0	202	0	120	43	398	.54	269
SEP									
11...	1.0	2.0	190	2	119	33	376	.51	298
15...	338	2.0	160	5	111	29	1	.00	.62
25...	1.0	2.0	148	0	94	2.1	340	.46	277

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	584	562	588	573	555	618	617	338			---	641
2	595	560	592	578	584	611	655	338			---	678
3	632	563	605	576	600	612	592	327			---	679
4	671	562	606	572	599	605	581	341			---	686
5	675	559	601	560	598	618	588	352			---	694
6	671	560	595	553	584	620	595	358			---	661
7	674	561	593	591	587	589	576	354			---	628
8	668	558	589	610	578	630	564	349			---	631
9	687	553	598	613	577	643	563	346			---	629
10	682	558	618	616	586	651	533	353			---	612
11	669	574	628	624	645	618	487	350			729	580
12	665	591	615	647	617	613	464	370			716	570
13	646	600	613	646	591	608	460	382			700	573
14	621	584	619	646	588	611	460	404			673	577
15	614	597	602	630	591	611	471	426			660	575
16	613	632	580	603	602	607	480	440			674	563
17	579	657	569	591	608	585	464	457			674	554
18	572	646	569	595	610	593	460	478			681	548
19	574	629	571	591	620	616	449	490			687	549
20	563	620	573	596	619	636	424	477			677	574
21	555	616	571	600	617	622	430	457			657	561
22	541	615	573	599	619	628	437	454			661	542
23	535	600	572	580	635	647	446	450			678	552
24	549	587	576	574	631	620	431	444			680	573
25	553	583	575	565	632	617	398	432			665	---
26	542	588	576	580	624	613	372	423			663	---
27	548	609	573	563	605	581	383	---			667	---
28	570	598	574	552	624	578	407	---			678	---
29	584	587	571	553	---	597	404	---			709	---
30	567	593	588	557	---	582	375	---			712	---
31	562	---	584	560	---	587	---	---			644	---
MEAN	605	590	589	590	605	612	486	400			680	601

09304600 WHITE RIVER AT MEEKER, CO--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	14.5	9.5	8.0	3.5	3.5	1.5	3.5	1.0	1.0	.5	5.5	3.0
2	13.5	9.0	7.0	4.0	3.0	1.0	3.5	1.0	1.0	.5	5.0	2.5
3	13.0	8.0	6.5	3.5	6.0	3.0	3.5	1.0	1.0	.5	5.0	3.0
4	13.0	8.5	9.5	5.0	5.0	3.5	4.0	1.5	1.0	1.0	7.5	2.5
5	13.5	8.0	9.0	5.0	4.0	3.0	4.0	2.5	1.0	1.0	7.5	3.0
6	13.5	8.5	8.0	4.5	4.5	2.5	3.0	.5	1.0	1.0	6.0	2.5
7	13.5	8.5	9.0	5.0	3.0	2.0	1.5	.5	1.0	1.0	7.5	1.5
8	14.0	8.0	9.0	5.5	3.0	1.0	1.0	.5	1.0	1.0	7.0	4.0
9	13.5	7.5	8.0	4.0	1.5	.5	1.0	.5	1.0	.5	8.0	2.0
10	12.0	7.5	7.5	4.0	1.0	.5	1.5	.5	1.0	1.0	7.5	3.0
11	11.5	7.5	7.0	3.5	1.0	.5	1.0	.0	1.0	1.0	5.5	2.5
12	9.5	7.5	8.0	6.0	.5	.5	.5	.0	1.0	.5	7.5	3.5
13	11.0	8.5	6.5	3.5	.5	.5	.5	.0	2.0	.5	8.5	3.5
14	10.5	8.5	3.5	1.0	.5	.0	.5	.0	3.0	1.0	7.5	2.5
15	9.5	7.5	1.5	.5	1.0	.0	1.0	.5	5.0	2.0	9.5	3.0
16	7.5	5.5	.5	.0	1.5	.0	2.0	.5	5.5	1.5	8.0	3.5
17	6.0	4.0	.5	.0	2.5	.5	3.0	.5	6.0	2.0	7.0	2.5
18	7.0	5.0	.5	.0	3.0	.5	3.0	.5	5.5	2.0	8.5	1.5
19	8.5	5.0	.5	.0	3.0	.5	2.5	.5	5.5	2.0	7.5	3.5
20	8.5	5.5	1.0	.0	3.0	.5	3.5	1.0	5.0	1.5	7.5	5.5
21	8.5	5.5	1.5	.0	3.0	1.0	2.0	1.0	5.0	1.0	5.5	3.0
22	8.5	5.5	1.0	.0	5.0	3.0	2.5	1.0	5.0	1.0	8.5	2.0
23	6.5	4.5	2.5	.5	4.5	2.0	3.0	1.0	6.0	1.0	10.5	4.5
24	6.0	3.0	2.0	1.0	3.0	1.0	3.0	1.0	7.0	1.5	7.0	3.5
25	6.5	3.0	2.5	.0	5.0	2.0	3.0	1.0	7.0	2.0	8.0	1.0
26	5.0	3.5	1.0	.5	5.5	3.0	1.5	.5	4.5	3.0	10.5	5.0
27	5.0	3.0	.5	.5	5.0	2.0	1.5	1.0	7.5	2.5	10.0	6.0
28	4.5	1.5	1.5	.5	5.0	2.5	4.0	1.5	7.0	3.0	6.5	3.5
29	5.5	1.0	3.0	.5	3.5	1.0	4.5	2.0	---	---	8.5	2.5
30	7.0	2.0	4.0	2.0	3.0	1.0	2.5	1.0	---	---	5.5	1.5
31	8.0	3.0	---	---	3.5	1.0	2.0	.5	---	---	---	---
MONTH	14.5	1.0	9.5	.0	6.0	.0	4.5	.0	7.5	.5	10.5	1.0

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	---	---	13.0	9.5	12.5	9.5	17.5	15.5	19.0	16.0	17.5	12.0
2	---	---	12.5	10.5	13.0	10.5	18.0	14.5	19.5	16.0	16.0	12.5
3	---	---	11.5	8.0	12.5	11.0	17.5	14.5	19.0	16.5	17.5	12.5
4	---	---	10.5	6.5	13.0	10.0	18.5	14.5	19.5	16.5	17.5	12.0
5	---	---	10.5	8.0	13.5	10.5	19.0	15.0	19.5	16.5	16.5	13.5
6	---	---	11.0	8.5	13.5	11.5	19.0	15.5	19.5	16.5	16.5	13.0
7	---	---	10.5	8.0	14.0	12.0	19.5	15.5	19.0	16.0	16.0	13.5
8	---	---	9.5	7.0	14.0	11.5	20.0	16.0	18.5	15.5	16.5	12.0
9	---	---	9.5	5.5	14.5	12.0	19.0	16.5	18.5	16.0	16.0	12.0
10	---	---	11.0	7.0	14.5	12.0	18.5	15.5	18.0	14.5	16.0	12.5
11	---	---	10.5	8.0	15.5	12.5	18.5	16.0	15.0	12.0	16.5	12.0
12	---	---	9.0	6.5	15.5	12.5	18.5	16.5	19.0	13.0	16.0	11.0
13	---	---	11.5	6.0	15.0	12.5	18.5	16.5	18.0	13.5	16.0	10.5
14	---	---	13.5	7.5	13.0	10.5	19.0	15.5	17.5	13.0	16.5	10.5
15	---	---	12.0	9.0	13.0	8.0	19.5	16.5	18.5	13.0	16.0	10.5
16	11.5	7.0	10.5	8.5	14.0	9.5	19.0	16.5	20.0	12.5	17.0	11.0
17	11.0	6.5	10.0	8.0	15.5	11.0	17.5	15.5	20.0	13.0	16.0	10.0
18	11.5	7.0	14.0	8.0	15.0	11.5	18.0	15.0	19.5	12.5	17.0	9.5
19	12.0	8.0	12.5	9.5	16.0	11.5	19.0	16.0	19.0	12.5	16.0	10.0
20	10.0	6.0	11.5	9.5	17.0	13.0	18.5	15.5	20.5	13.5	16.0	10.0
21	9.0	5.0	10.0	7.5	17.0	13.0	18.5	15.0	15.5	13.0	15.5	11.5
22	10.0	6.0	10.5	7.5	17.5	13.0	18.5	15.5	19.5	12.5	16.5	11.5
23	13.0	6.0	13.0	8.5	16.5	13.0	18.5	15.5	20.0	13.0	16.0	10.5
24	14.0	7.5	12.5	8.5	17.5	13.0	18.0	15.5	17.5	13.0	14.0	11.5
25	13.5	8.0	12.0	9.5	18.5	13.5	18.5	15.5	19.0	12.5	---	---
26	13.0	7.5	12.0	10.0	17.5	14.5	18.0	16.0	20.0	13.5	---	---
27	11.0	8.5	13.0	10.5	17.5	15.0	17.5	15.0	19.0	14.0	---	---
28	12.5	8.5	12.5	10.5	16.5	15.0	18.0	15.0	20.5	13.5	---	---
29	12.5	8.5	12.0	10.0	18.0	14.0	17.5	15.5	17.5	14.0	---	---
30	12.5	9.5	13.0	9.5	19.0	14.0	17.0	15.0	18.5	13.5	---	---
31	---	---	12.5	10.5	---	---	18.0	15.0	16.5	13.5	---	---
MONTH	14.0	5.0	14.0	5.5	19.0	8.0	20.0	14.5	20.5	12.0	17.5	9.5

09304800 WHITE RIVER BELOW MEEKER, CO

LOCATION.--Lat 40°00'48", long 108°05'33", in center of sec.31, T.1 N., R.95 W., Rio Blanco County, Hydrologic Unit 14050005, on left bank 30 ft (9 m) downstream from county bridge, 4.5 mi (7.2 km) downstream from Strawberry Creek, and 10 mi (16 km) west of Meeker.

DRAINAGE AREA.--1,024 mi^2 (2,652 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1961 to current year.

REVISED RECORDS.--WDR CO-79-3: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 5,928 ft (1,807 m), from topographic map.

REMARKS.--Records good. Diversion above station for irrigation of about 22,000 acres (89.0 km^2) above station and a few small hay meadows below.

AVERAGE DISCHARGE.--20 years, 611 ft^3/s (17.30 m^3/s), 442,700 acre-ft/yr (546 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,750 ft^3/s (135 m^3/s) June 17, 1978, gage height, 4.46 ft (1.359 m); minimum daily, 85 ft^3/s (2.41 m^3/s) June 28, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,080 ft^3/s (58.9 m^3/s) at 0900 June 9, gage height, 2.98 ft (0.908 m); only peak above base of 2,000 ft^3/s (56.6 m^3/s); minimum daily, 204 ft^3/s (5.78 m^3/s) Aug. 29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	336	400	322	280	255	268	305	953	1510	438	303	274
2	319	394	309	275	234	266	328	928	1480	506	282	235
3	308	393	317	279	240	269	336	1310	1600	533	268	252
4	291	393	314	282	257	272	319	1190	1620	494	255	248
5	288	392	312	295	261	265	281	982	1580	444	243	261
6	286	381	312	278	272	278	318	954	1550	447	226	304
7	305	381	314	249	261	284	319	871	1670	392	236	318
8	291	375	311	271	307	281	303	752	1810	331	225	308
9	283	374	278	271	295	272	289	703	1790	298	229	284
10	292	369	271	272	306	277	340	628	1720	427	235	300
11	297	363	273	281	300	276	411	617	1460	418	257	329
12	308	355	306	259	300	284	422	599	1230	519	285	348
13	350	355	297	254	300	278	417	541	1010	606	303	349
14	389	356	280	265	310	274	420	479	872	499	327	347
15	478	337	306	255	320	273	457	451	776	425	334	351
16	457	290	327	282	344	274	484	473	672	397	360	337
17	487	276	323	287	297	298	536	549	583	406	343	325
18	512	278	303	265	285	288	579	539	517	443	309	324
19	486	340	304	261	278	279	655	473	479	435	299	341
20	474	333	289	258	290	284	741	509	399	399	289	326
21	460	335	292	243	262	293	598	587	386	365	308	326
22	441	330	305	243	260	282	595	600	360	325	298	322
23	437	336	305	259	257	283	535	635	324	312	280	299
24	409	333	276	255	273	298	592	633	305	355	250	289
25	404	334	307	262	276	289	722	658	290	404	272	300
26	429	314	293	237	278	293	853	735	285	452	254	281
27	433	300	289	256	272	325	902	902	328	418	253	280
28	415	335	285	267	265	319	869	1200	468	362	237	280
29	391	335	278	263	---	299	893	1360	494	347	204	284
30	406	326	256	255	---	305	938	1370	395	359	240	297
31	407	---	275	253	---	294	---	1470	---	350	268	---
TOTAL	11869	10413	9229	8212	7855	8820	15757	24651	27963	12906	8472	9119
MEAN	383	347	298	265	281	285	525	795	932	416	273	304
MAX	512	400	327	295	344	325	938	1470	1810	606	360	351
MIN	283	276	256	237	234	265	281	451	285	298	204	235
AC-FT	23540	20650	18310	16290	15580	17490	31250	48900	55460	25600	16800	18090

CAL YR 1980 TOTAL 227850 MEAN 623 MAX 2810 MIN 256 AC-FT 451900
WTR YR 1981 TOTAL 155266 MEAN 425 MAX 1810 MIN 204 AC-FT 308000

09304800 WHITE RIVER BELOW MEEKER, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--April 1974 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: July 1978 to current year.
WATER TEMPERATURES: July 1978 to current year.

INSTRUMENTATION.--Water-quality monitor since July 1978.

REMARKS.--Daily maximum and minimum specific-conductance data available in district office.

COOPERATION.--Additional chemical quality data are furnished by the U.S. Bureau of Reclamation (noted by an asterisk in the water year heading).

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maxmum, 908 micromhos Aug. 30, 1981; minimum, 221 micromhos June 13, 1980.
WATER TEMPERATURES: Maximum, 25.0°C Aug. 7, 1978, Aug. 7, 1980; minimum, 0.0°C many days during winter months.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 908 micromhos Aug. 30; minimum, 263 micromhos June 8.
WATER TEMPERATURES: Maximum, 24.0°C July 8; minimum, 0.0°C many days during November to April.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	HARD-NESS (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)
OCT											
31...	1240	410	625	--	8.0	5.5	12.8	260	68	21	38
DEC											
15...	1415	303	605	619	8.2	.0	14.2	240	70	17	34
JAN											
26...	1345	245	--	--	8.7	.0	13.9	220	63	15	32
FEB											
26...	0945	277	670	626	8.0	2.5	11.4	270	66	25	36
APR											
06...	1225	335	740	720	8.3	8.5	10.5	280	73	23	38
22...	1245	620	--	408	8.3	10.5	10.0	190	55	13	19
MAY											
15...	1230	472	490	518	8.3	13.5	9.8	210	59	16	25
JUN											
18...	1300	530	--	580	8.1	14.0	--	230	62	18	26
JUL											
28...	0910	375	--	687	8.1	15.0	8.4	290	77	23	34
AUG											
26...	0935	273	780	779	7.7	16.0	10.4	330	84	28	45

DATE	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)
OCT										
31...	1.0	1.4	140	130	31	.2	14	388	.53	430
DEC										
15...	.9	1.7	140	120	31	.2	15	373	.51	305
JAN										
26...	.9	1.1	110	120	37	.2	14	348	.47	230
FEB										
26...	1.0	1.6	130	170	35	.2	12	424	.58	317
APR										
06...	1.0	1.6	130	190	34	.2	14	452	.61	409
22...	.6	1.3	110	88	24	.1	13	280	.38	469
MAY										
15...	.7	1.3	130	96	23	.1	13	312	.42	398
JUN										
18...	.7	1.7	150	110	21	.1	15	344	.47	492
JUL										
28...	.9	1.5	180	150	30	.2	16	440	.60	445
AUG										
26...	1.2	2.1	190	180	34	.3	15	503	.68	371

09304800 WHITE RIVER BELOW MEEKER, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	BORON, DIS-SOLVED (UG/L AS B)	IRON, DIS-SOLVED (UG/L AS FE)	CARBON, ORGANIC TOTAL (MG/L AS C)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C)
OCT										
31...	.18	.050	.44	.49	.67	.040	50	20	--	--
DEC										
15...	.10	.000	.63	.63	.73	.020	10	10	--	--
JAN										
26...	.06	.060	.37	.43	.49	.050	10	10	--	--
FEB										
26...	.03	.030	.50	.53	.56	.120	0	50	--	--
APR										
06...	.00	.060	1.7	1.80	1.8	.200	10	40	--	--
22...	.06	.140	.35	.49	.55	.080	20	20	--	5.0
MAY										
15...	.01	.050	.54	.59	.60	.050	5	30	--	--
JUN										
18...	.04	.190	.44	.63	.67	.050	20	20	--	--
JUL										
28...	.09	.190	.24	.43	.52	.060	30	17	6.0	2.5
AUG										
26...	--	--	--	--	--	--	40	22	--	4.5

DATE	TIME	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL)	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS-SOLVED (UG/L AS AS)	ARSENIC TOTAL IN BOT-TOM MA-TERIAL (UG/G AS AS)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA)	BARIUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS BA)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE)
OCT										
31...	1240	--	--	--	--	--	--	--	--	--
DEC										
15...	1415	--	--	--	--	--	--	--	--	--
JAN										
26...	1345	--	--	--	--	--	--	--	--	--
FEB										
26...	0945	--	--	--	--	--	--	--	--	--
APR										
06...	1225	--	--	--	--	--	--	--	--	--
22...	1245	--	680	--	2	--	--	100	--	0
MAY										
15...	1230	--	--	--	--	--	--	--	--	--
JUN										
18...	1300	--	--	--	--	--	--	--	--	--
JUL										
28...	0910	--	--	--	--	--	--	--	--	--
AUG										
26...	0935	.010	140	20	1	1	3	--	80	0

DATE	BERYL-LIUM, DIS-SOLVED (UG/L AS BE)	BERYL-LIUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	BORON, DIS-SOLVED (UG/L AS B)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD)	CADMIUM DIS-SOLVED (UG/L AS CD)	CADMIUM RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CD)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	CHRO-MIUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	COBALT, TOTAL RECOV-ERABLE (UG/L AS CO)
OCT										
31...	--	--	50	--	--	--	--	--	--	--
DEC										
15...	--	--	10	--	--	--	--	--	--	--
JAN										
26...	--	--	10	--	--	--	--	--	--	--
FEB										
26...	--	--	0	--	--	--	--	--	--	--
APR										
06...	--	--	10	--	--	--	--	--	--	--
22...	--	--	20	0	--	--	20	--	--	6
MAY										
15...	--	--	5	--	--	--	--	--	--	--
JUN										
18...	--	--	20	--	--	--	--	--	--	--
JUL										
28...	--	--	30	--	--	--	--	--	--	--
AUG										
26...	<1	<1	40	0	<1	<1	10	0	6	--

09304800 WHITE RIVER BELOW MEEKER, CO--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	COBALT, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CO)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU)	COPPER, DIS-SOLVED (UG/L AS CU)	COPPER, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CU)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS FE)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB)	LEAD, DIS-SOLVED (UG/L AS PB)	LEAD, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS PB)	LITHIUM TOTAL RECOV-ERABLE (UG/L AS LI)
OCT										
31...	--	--	--	--	--	--	--	--	--	--
DEC										
15...	--	--	--	--	--	--	--	--	--	--
JAN										
26...	--	--	--	--	--	--	--	--	--	--
FEB										
26...	--	--	--	--	--	--	--	--	--	--
APR										
06...	--	--	--	--	--	--	--	--	--	--
22...	--	6	--	--	--	--	5	--	--	10
MAY										
15...	--	--	--	--	--	--	--	--	--	--
JUN										
10...	--	--	--	--	--	--	--	--	--	--
JUL										
28...	--	--	--	--	--	--	--	--	--	--
AUG										
26...	0	5	5	10	230	7000	2	0	<10	20

DATE	LITHIUM DIS-SOLVED (UG/L AS LI)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MANGA-NESE, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG)	MERCURY DIS-SOLVED (UG/L AS HG)	MERCURY RECOV. FM BOT-TOM MA-TERIAL (UG/G AS HG)	MOLYB-DENUM, TOTAL RECOV-ERABLE (UG/L AS MO)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	MOLYB-DENUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G)
OCT										
31...	--	--	--	--	--	--	--	--	--	--
DEC										
15...	--	--	--	--	--	--	--	--	--	--
JAN										
26...	--	--	--	--	--	--	--	--	--	--
FEB										
26...	--	--	--	--	--	--	--	--	--	--
APR										
06...	--	--	--	--	--	--	--	--	--	--
22...	--	40	--	--	.1	--	--	4	--	--
MAY										
15...	--	--	--	--	--	--	--	--	--	--
JUN										
10...	--	--	--	--	--	--	--	--	--	--
JUL										
28...	--	--	--	--	--	--	--	--	--	--
AUG										
26...	22	40	24	210	.0	.0	.02	3	<10	<1

DATE	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI)	NICKEL, DIS-SOLVED (UG/L AS NI)	NICKEL, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS NI)	SELE-NIUM, TOTAL (UG/L AS SE)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	SELE-NIUM, TOTAL IN BOT-TOM MA-TERIAL (UG/G)	VANA-DIUM, DIS-SOLVED (UG/L AS V)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN)	ZINC, DIS-SOLVED (UG/L AS ZN)	ZINC, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS ZN)
OCT										
31...	--	--	--	--	--	--	--	--	--	--
DEC										
15...	--	--	--	--	--	--	--	--	--	--
JAN										
26...	--	--	--	--	--	--	--	--	--	--
FEB										
26...	--	--	--	--	--	--	--	--	--	--
APR										
06...	--	--	--	--	--	--	--	--	--	--
22...	2	--	--	1	--	--	--	10	--	--
MAY										
15...	--	--	--	--	--	--	--	--	--	--
JUN										
10...	--	--	--	--	--	--	--	--	--	--
JUL										
28...	--	--	--	--	--	--	--	--	--	--
AUG										
26...	2	0	11	1	1	0	.0	10	7	33

09304800 WHITE RIVER BELOW MEEKER, CO--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	CARBON, ORGANIC TOTAL (MG/L AS C)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C)	CARBON, ORGANIC SUS-PENDED TOTAL (MG/L AS C)	CYANIDE TOTAL (MG/L AS CN)	PHENOLS (UG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	PCB, TOTAL (UG/L)	NAPH-THA-LENES, POLY-CHLOR, TOTAL (UG/L)	ALDRIN, TOTAL (UG/L)	CHLOR-DANE, TOTAL (UG/L)
APR											
22...	1245	--	5.0	.7	.00	--	--	--	--	--	--
JUL											
28...	0910	6.0	2.5	--	--	--	--	--	--	--	--
AUG											
26...	0935	--	4.5	--	.00	5	.00	.00	.00	.00	.00

DATE	DDD, TOTAL (UG/L)	DDE, TOTAL (UG/L)	DDT, TOTAL (UG/L)	DI-AZINON, TOTAL (UG/L)	DI-ELDRIN TOTAL (UG/L)	ENDO-SULFAN, TOTAL (UG/L)	ENDRIN, TOTAL (UG/L)	ETHION, TOTAL (UG/L)	HEPTA-CHLOR, TOTAL (UG/L)	HEPTA-CHLOR EPOXIDE TOTAL (UG/L)	LINDANE TOTAL (UG/L)
APR											
22...	--	--	--	--	--	--	--	--	--	--	--
JUL											
28...	--	--	--	--	--	--	--	--	--	--	--
AUG											
26...	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

DATE	MALA-THION, TOTAL (UG/L)	METH-OXY-CHLOR, TOTAL (UG/L)	METHYL PARA-THION, TOTAL (UG/L)	METHYL TRI-THION, TOTAL (UG/L)	MIREX, TOTAL (UG/L)	PARA-THION, TOTAL (UG/L)	PER-THANE TOTAL (UG/L)	TOX-APHENE, TOTAL (UG/L)	TOTAL TRI-THION (UG/L)	ALGAL GROWTH POTEN-TIAL, BOTTLE TEST (MG/L)
APR										
22...	--	--	--	--	--	--	--	--	--	--
JUL										
28...	--	--	--	--	--	--	--	--	--	--
AUG										
26...	.00	.00	.00	.00	.00	.00	.00	0	.00	1.2

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)
OCT				
31...	1230	410	19	21
DEC				
15...	1410	303	34	28
JAN				
26...	1345	245	19	13
FEB				
26...	0945	277	26	19
MAR				
31...	0930	281	27	20
APR				
06...	1225	335	490	443
07...	0850	316	80	68
13...	1045	430	96	111
20...	1050	802	539	1170
22...	1245	620	97	162
27...	0925	999	412	1110
MAY				
04...	0940	1280	292	1010
11...	0920	613	64	106
15...	1230	472	17	22
18...	1310	592	39	62
26...	1000	718	57	111

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)
JUN				
01...	0900	1590	219	940
08...	1330	1980	220	1180
15...	0855	809	20	44
22...	0900	365	10	9.9
29...	0850	520	45	63
JUL				
06...	1020	420	23	26
13...	0835	662	245	438
20...	0840	405	35	38
20...	0940	405	35	38
28...	0910	375	35	35
AUG				
03...	0825	268	73	53
10...	0900	235	17	11
20...	1005	312	25	21
21...	1005	308	46	38
25...	1005	272	25	18
31...	1005	268	46	33
SEP				
11...	0945	330	69	61
15...	1330	350	40	38
25...	--	300	32	26

09304800 WHITE RIVER BELOW MEEKER, CO--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981 *

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	HARD-NESS (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)
OCT										
03...	1335	316	691	--	8.1	11.5	290	80	22	37
10...	1105	285	725	--	8.0	8.5	300	82	23	40
20...	1330	470	636	--	8.3	8.0	270	74	21	31
27...	1345	436	600	--	8.0	6.5	250	69	19	31
NOV										
03...	1130	390	590	--	8.0	4.5	250	70	19	32
12...	1240	360	614	--	8.2	7.0	250	70	19	32
18...	1300	321	600	--	8.3	.5	260	73	19	32
25...	0945	335	620	--	7.8	.0	260	71	19	32
DEC										
01...	0905	319	620	--	8.3	1.5	250	68	19	33
08...	1005	316	600	--	7.8	1.0	250	72	18	33
15...	0930	298	600	--	7.8	.0	240	70	17	27
22...	1020	298	--	--	8.0	2.5	250	71	18	32
29...	0950	285	--	--	7.4	.5	260	72	19	34
JAN										
06...	0910	285	--	--	7.7	.5	250	70	18	33
19...	0915	273	--	--	7.8	.0	260	74	17	30
26...	0900	245	--	--	8.1	.0	260	75	18	35
FEB										
03...	1020	245	595	--	8.4	.0	250	70	17	31
09...	1030	277	--	--	8.2	.0	250	71	17	31
17...	0910	300	--	--	8.1	1.0	260	71	20	36
23...	0915	265	--	636	8.3	.5	260	73	19	33
MAR										
02...	0915	265	--	649	8.2	2.0	250	70	19	39
09...	1110	281	--	--	8.3	3.5	290	77	24	42
16...	1010	271	--	665	8.3	4.5	270	75	20	40
23...	1425	290	650	685	8.8	10.0	250	62	22	42
31...	0920	281	690	701	8.3	.5	280	74	22	41
APR										
07...	0850	316	--	697	8.0	6.5	280	76	22	42
13...	1045	430	400	350	8.1	10.0	220	62	16	26
20...	1040	802	--	386	7.8	9.0	170	50	11	15
27...	0925	999	--	363	7.7	9.5	160	47	9.8	13
MAY										
04...	0930	1280	--	350	7.8	6.0	150	42	11	14
11...	0915	613	--	461	7.9	8.0	190	53	14	21
18...	1310	592	520	529	8.3	12.0	220	60	16	25
26...	1000	718	--	510	7.9	11.0	230	63	17	23
JUN										
01...	0850	1610	--	328	7.7	9.5	150	42	11	11
08...	1320	1980	280	283	7.7	14.0	120	36	8.5	9.0
15...	0845	809	--	463	7.8	11.0	200	54	16	21
22...	0850	365	--	667	7.9	14.5	290	78	22	35
29...	0850	520	--	645	8.0	15.0	270	70	22	33
JUL										
06...	1030	424	--	662	8.2	17.5	300	82	23	31

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	HARD-NESS (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)
JUL									
20...	0835	385	--	613	8.0	15.0	280	75	22
28...	0915	345	--	637	8.1	15.0	280	78	22
AUG									
03...	0815	238	--	673	8.0	17.0	290	76	25
10...	0910	230	800	--	8.0	16.0	320	82	28
17...	0945	300	--	695	--	14.5	320	85	25
25...	0950	250	--	--	--	14.5	290	74	27
31...	1000	250	830	--	8.0	15.0	290	67	29
SEP									
11...	0935	320	720	740	8.1	13.0	310	85	24
15...	1330	350	640	670	8.2	16.0	290	78	22
25...	1400	300	680	680	8.3	14.0	280	78	21

09304800 WHITE RIVER BELOW MEEKER, CO--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE, FET-LAB (MG/L AS HCO3)	CAR- BONATE, FET-LAB (MG/L AS CO3)	ALKA- LINITY LAB (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)
OCT										
03...	.9	2.0	195	.00	160	274	34	473	.64	404
10...	1.0	2.0	205	.00	168	160	38	495	.67	381
20...	.8	2.0	178	5.0	154	150	31	421	.57	534
27...	.9	2.0	175	.00	143	142	28	441	.60	519
NOV										
03...	.9	2.0	177	.00	145	144	31	436	.59	459
12...	.9	2.0	170	.00	140	138	33	400	.54	389
18...	.9	2.0	171	.00	140	140	34	410	.56	355
25...	.9	2.0	170	.00	139	136	34	398	.54	360
DEC										
01...	.9	2.0	156	5.0	136	142	35	413	.56	356
08...	.9	2.0	164	.00	135	142	30	396	.54	338
15...	.7	1.0	161	.00	132	130	31	363	.49	292
22...	.9	2.0	166	.00	136	134	35	376	.51	303
29...	.9	2.0	167	.00	137	142	38	425	.58	327
JAN										
06...	.9	2.0	162	.00	133	138	37	418	.57	322
19...	.8	2.0	164	.00	134	142	33	411	.56	303
26...	1.0	2.0	166	.00	136	134	41	430	.58	284
FEB										
03...	.9	2.0	120	16	124	148	36	398	.54	263
09...	.9	2.0	139	.00	130	127	36	390	.53	292
17...	1.0	2.0	166	.00	136	147	39	416	.57	337
23...	1.0	2.0	162	.00	133	148	38	414	.56	296
MAR										
02...	1.0	2.0	154	.00	126	148	40	432	.59	309
09...	1.0	2.0	169	.00	--	184	43	497	.68	377
16...	1.0	2.0	164	.00	--	162	41	433	.59	317
23...	1.0	2.0	119	6.0	--	180	41	440	.60	345
31...	1.0	2.0	166	.00	--	166	39	466	.63	354
APR										
07...	1.0	2.0	175	.00	--	176	36	484	.66	413
13...	1.0	2.0	151	.00	--	114	27	363	.49	421
20...	1.0	2.0	128	21	--	75	17	258	.35	559
27...	.0	2.0	124	.00	--	61	14	242	.33	653
MAY										
04...	1.0	2.0	121	.00	--	60	12	226	.31	781
11...	1.0	2.0	149	2.0	--	56	22	302	.41	500
18...	1.0	2.0	154	3.0	--	104	21	340	.46	543
26...	1.0	2.0	175	.00	--	94	23	307	.42	595
JUN										
01...	.0	1.0	74	26	--	55	9.2	192	.26	835
08...	.0	1.0	107	.00	--	52	6.4	188	.26	1010
15...	1.0	2.0	163	.00	--	87	19	279	.38	609
22...	1.0	3.0	217	.00	--	149	29	423	.58	417
29...	1.0	3.0	--	--	--	124	25	386	.52	542
JUL										
06...	1.0	2.0	--	--	--	130	28	406	.55	465

DATE	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)
JUL								
20...	30	1.0	2.0	128	27	387	.53	402
28...	32	1.0	2.0	134	32	404	.55	376
AUG								
03...	41	1.0	2.0	139	36	422	.57	271
10...	48	1.0	2.0	164	43	481	.65	299
17...	39	1.0	2.0	155	36	458	.62	371
25...	42	1.0	2.0	164	39	445	.61	300
31...	46	.0	3.0	163	38	437	.59	295
SEP								
11...	38	1.0	3.0	156	33	453	.62	391
15...	33	1.0	2.0	151	29	419	.57	396
25...	31	1.0	2.0	142	28	399	.54	323

09304800 WHITE RIVER BELOW MEEKER, CO--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	577	637	647	565	657	701	364	347	661	703	788
2	---	590	656	641	576	659	724	363	342	656	717	830
3	734	607	646	641	588	665	727	362	332	656	728	816
4	746	627	632	639	596	665	722	357	322	654	744	800
5	742	606	626	637	599	666	711	375	319	652	758	811
6	729	617	616	628	601	670	705	390	310	648	773	796
7	730	620	609	626	593	656	694	407	307	648	791	760
8	723	621	598	626	590	655	682	422	285	651	805	752
9	726	614	603	624	588	663	669	430	272	652	818	747
10	731	608	616	620	584	670	654	448	296	662	836	746
11	709	625	641	609	605	667	628	468	321	664	847	699
12	704	---	611	609	609	660	587	485	341	658	817	673
13	711	---	598	619	597	652	547	502	372	648	801	673
14	685	---	603	620	598	650	523	509	418	631	769	664
15	671	---	590	622	603	650	518	508	467	636	749	646
16	652	---	568	620	618	651	507	507	512	641	736	642
17	657	---	567	609	647	647	490	513	554	644	730	667
18	652	---	584	607	654	645	468	523	580	647	728	671
19	660	---	608	617	659	657	422	523	602	649	738	653
20	648	---	625	610	665	677	392	522	623	648	747	658
21	632	---	637	604	657	689	379	514	639	649	734	655
22	625	---	659	604	655	689	377	505	653	654	735	649
23	617	---	670	601	659	698	382	503	656	661	748	660
24	614	626	664	588	654	708	396	512	657	666	777	668
25	620	610	668	573	654	706	383	524	659	672	775	---
26	609	608	669	571	654	714	370	532	662	674	772	---
27	598	626	659	577	648	700	368	516	665	671	789	---
28	594	628	657	568	650	685	368	482	673	673	804	---
29	599	622	651	566	---	690	372	439	669	680	849	---
30	593	643	653	565	---	699	374	398	663	686	885	---
31	580	---	655	565	---	689	---	372	---	693	824	---

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	---	---	6.5	2.5	2.5	1.0	2.0	.0	.0	.0	5.0	2.0
2	---	---	6.5	3.0	2.5	.0	2.0	.0	.0	.0	4.0	2.0
3	---	---	5.5	3.0	5.5	2.0	2.5	.0	.0	.0	5.0	2.0
4	13.5	8.0	7.5	3.5	4.5	3.5	2.5	.0	.0	.0	7.0	2.0
5	13.5	8.0	8.0	4.0	3.5	2.5	2.5	1.5	.0	.0	6.5	2.0
6	14.0	8.0	7.0	4.0	3.5	1.0	2.0	.0	.0	.0	5.5	2.5
7	13.5	8.0	8.0	4.5	3.0	1.5	.5	.0	.0	.0	5.0	1.5
8	13.5	8.0	8.5	5.0	2.0	.0	.0	.0	.0	.0	7.5	3.5
9	13.0	8.0	7.5	3.5	1.0	.0	.0	.0	.0	.0	7.0	2.0
10	12.0	7.5	7.0	3.0	.0	.0	.0	.0	.0	.0	8.0	2.5
11	11.5	6.5	6.5	2.5	.0	.0	.0	.0	.0	.0	5.0	2.5
12	9.5	7.0	7.5	5.0	.0	.0	.0	.0	.0	.0	5.5	3.0
13	11.5	8.5	6.5	3.5	.0	.0	.0	.0	.0	.0	7.0	3.0
14	10.5	8.0	3.5	1.0	.0	.0	.0	.0	.0	.0	7.0	3.0
15	9.0	7.0	1.5	.0	.0	.0	.0	.0	.0	.0	8.5	3.0
16	7.0	5.0	.5	.0	.5	.0	.0	.0	4.5	.0	8.0	3.5
17	6.0	3.0	.0	.0	1.0	.0	.0	.0	4.5	1.5	7.0	2.5
18	6.5	4.5	.0	.0	2.0	.0	1.0	.0	5.0	1.5	7.0	2.5
19	8.5	4.0	.0	.0	2.0	.0	1.5	.0	5.0	1.0	7.5	3.0
20	8.5	4.5	.5	.0	1.5	.0	2.0	.0	3.5	1.0	7.0	4.5
21	8.5	4.5	.5	.0	2.0	.0	1.5	.0	3.0	.0	5.5	3.0
22	8.5	4.5	.5	.0	4.0	1.5	1.0	.0	4.5	.0	7.0	1.5
23	6.5	3.0	2.0	.0	4.0	1.5	1.0	.0	5.5	.5	10.0	3.5
24	5.5	1.5	2.0	.5	2.5	.0	1.5	.0	6.5	1.0	7.5	4.0
25	6.0	1.5	2.0	.0	3.5	1.0	2.5	.0	6.0	1.5	7.5	1.5
26	4.0	2.0	1.0	.0	4.5	1.5	.0	.0	4.0	2.0	10.5	4.5
27	4.0	2.5	.0	.0	4.0	1.0	.5	.0	6.5	1.5	10.0	6.0
28	3.5	.5	1.0	.0	4.0	1.5	2.5	.0	6.5	2.0	7.0	4.0
29	4.0	.0	2.5	.0	3.0	.0	3.5	1.0	---	---	8.0	2.5
30	5.5	1.0	4.0	1.5	2.0	.0	2.0	.0	---	---	5.5	2.5
31	6.5	2.5	---	---	2.0	.0	.0	.0	---	---	6.0	.0
MONTH	14.0	.0	8.5	.0	5.5	.0	3.5	.0	6.5	.0	10.5	.0

09304800 WHITE RIVER BELOW MEEKER, CO--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	8.5	2.0	15.0	10.0	14.5	9.5	20.0	17.0	21.5	16.5	19.5	12.5
2	9.5	4.0	14.0	11.5	15.0	11.0	21.0	15.5	22.0	16.5	18.0	14.0
3	8.0	4.5	11.5	7.0	14.0	11.5	20.5	15.0	22.0	17.0	18.5	13.0
4	5.0	2.5	12.0	5.5	15.0	10.0	21.5	15.0	22.0	16.5	18.0	13.0
5	7.5	.0	12.5	8.0	15.5	11.5	22.5	15.5	23.0	16.0	15.5	14.5
6	10.0	3.5	12.0	8.5	15.0	12.0	21.5	16.5	23.0	16.0	17.5	13.5
7	8.0	6.0	12.0	8.0	15.0	12.5	22.0	16.5	22.0	16.0	17.5	14.0
8	8.5	4.5	9.0	7.0	15.5	12.5	24.0	17.5	22.0	15.5	16.5	12.5
9	11.5	4.5	11.0	5.5	16.0	13.0	21.5	18.0	21.5	16.0	18.0	13.5
10	13.0	7.5	13.0	7.0	15.0	13.0	21.5	16.0	18.0	16.0	17.0	13.0
11	12.0	8.0	11.0	8.0	17.0	13.0	21.5	16.5	16.0	14.0	17.0	13.0
12	11.5	7.5	10.5	6.5	17.5	13.0	21.0	17.0	20.0	14.0	16.5	11.5
13	12.5	8.0	13.0	6.5	17.0	13.0	20.5	17.0	18.0	15.0	17.0	12.0
14	12.0	7.0	14.0	8.5	14.0	10.5	23.0	17.0	19.5	14.5	18.0	11.5
15	12.5	9.0	13.5	10.5	---	---	23.0	16.5	19.0	14.5	17.0	11.5
16	12.5	7.5	11.5	9.5	---	---	20.5	17.0	20.5	14.0	17.5	12.0
17	11.5	7.5	11.5	8.5	---	---	18.0	16.0	20.5	14.5	17.0	11.0
18	12.0	8.0	15.0	8.5	---	---	21.5	15.0	20.0	14.0	17.0	10.5
19	12.5	9.5	14.0	11.0	19.0	12.0	22.0	16.0	20.0	14.0	16.5	10.5
20	9.5	8.0	12.0	10.0	20.0	13.5	20.5	15.0	21.5	14.5	16.5	11.0
21	9.5	6.0	10.0	8.0	20.5	14.0	21.5	14.5	17.0	14.5	17.0	12.5
22	11.0	6.5	11.0	8.0	21.5	14.5	22.0	15.5	19.5	13.0	17.5	12.5
23	13.5	6.5	14.0	9.0	19.0	14.5	19.5	15.5	20.5	14.5	16.5	11.5
24	14.5	9.0	13.5	9.5	22.5	14.5	20.0	15.0	18.0	15.0	15.0	12.5
25	14.0	10.0	13.5	10.5	23.0	15.5	21.5	15.5	21.0	14.0	---	---
26	13.0	9.5	13.5	11.0	22.5	16.5	18.0	15.5	22.0	15.0	---	---
27	13.5	8.5	15.0	11.0	21.0	16.5	20.5	13.5	21.0	16.0	---	---
28	13.5	8.5	14.0	11.0	20.0	16.5	20.5	15.0	21.5	15.0	---	---
29	14.0	9.5	13.5	10.5	22.0	14.5	19.5	15.5	19.0	15.5	---	---
30	14.0	10.0	14.5	9.5	22.5	15.5	19.5	15.0	19.5	14.0	---	---
31	---	---	13.5	11.5	---	---	21.0	15.5	19.0	14.0	---	---
MONTH	14.5	.0	15.0	5.5	23.0	9.5	24.0	13.5	23.0	13.0	19.5	10.5

09306007 PICEANCE CREEK BELOW RIO BLANCO, CO

LOCATION.--Lat 39°49'34", long 108°10'57", in SE¼SE¼ sec.32, T.2 S., R.96 W., Rio Blanco County, Hydrologic Unit 14050006, on left bank 20 ft (6 m) downstream from private bridge, 1,100 ft (340 m) upstream from Stewart Gulch, and 14.3 mi (23.0 km) west of Rio Blanco.

DRAINAGE AREA.--177 mi^2 (458 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1974 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 6,366 ft (1,940 m), from topographic map.

REMARKS.--Records good. Several diversions above station for irrigation of hay meadows.

AVERAGE DISCHARGE.--7 years, 12.3 ft^3/s (0.348 m^3/s), 8,910 acre-ft/yr (11.0 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 520 ft^3/s (14.7 m^3/s) July 19, 1977, gage height, 7.01 ft (2.137 m), from rating based on indirect measurement; minimum daily, 0.47 ft^3/s (0.013 m^3/s) Apr. 25, 1981.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 24 ft^3/s (0.68 m^3/s) at 1100 Apr. 7, gage height, 2.57 ft (0.783 m); no peak above base of 100 ft^3/s (2.8 m^3/s); maximum gage height, 2.68 ft (0.817 m) at 1515 Feb. 11, (backwater from ice); minimum daily, 0.47 ft^3/s (0.013 m^3/s) Apr. 25.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.8	11	11	9.9	8.8	6.4	9.8	9.1	2.8	5.7	3.6	4.0
2	7.9	11	11	9.9	8.8	5.5	10	9.1	2.7	5.7	3.3	4.0
3	8.0	11	11	9.9	8.8	5.3	15	11	1.9	5.4	3.2	4.1
4	8.0	11	10	9.6	8.8	4.9	12	9.8	1.9	6.3	3.2	3.8
5	8.1	12	10	10	8.8	4.7	10	10	2.2	5.7	3.3	4.4
6	8.5	12	11	9.8	8.8	6.9	10	8.9	3.8	5.5	3.1	5.1
7	5.7	12	11	9.6	8.8	7.7	18	4.5	3.4	4.9	3.3	4.9
8	4.6	7.6	10	9.5	8.8	7.7	15	3.9	2.8	4.9	3.4	3.9
9	2.7	8.1	9.7	9.2	8.8	7.4	9.8	7.9	1.4	6.0	3.4	2.7
10	2.5	9.6	7.7	9.4	8.8	8.8	8.6	10	1.2	7.5	4.6	2.3
11	5.0	10	9.3	9.4	8.8	9.0	8.6	10	4.5	7.5	5.4	2.4
12	8.7	15	11	9.3	8.8	8.3	6.0	9.2	5.7	7.8	6.0	2.2
13	6.7	19	11	9.2	8.8	8.0	4.2	9.0	6.4	5.5	5.3	2.4
14	7.6	16	11	9.2	8.8	7.7	2.4	9.1	6.1	5.8	4.9	2.2
15	11	15	11	9.1	9.1	7.7	1.3	9.4	5.6	5.0	4.7	1.7
16	9.7	14	10	9.2	8.9	7.4	1.5	9.6	4.9	5.0	3.8	2.2
17	9.5	13	10	9.2	8.9	9.3	1.3	9.8	3.7	5.0	3.7	2.3
18	9.1	13	10	9.4	9.0	8.3	.88	7.7	4.5	5.0	4.6	2.6
19	9.2	12	10	9.8	9.2	7.7	.77	5.3	4.0	4.2	5.1	2.6
20	9.2	12	10	9.5	9.4	7.8	.77	3.2	3.6	4.5	5.1	2.4
21	9.0	12	9.9	9.5	9.5	8.3	.78	.98	4.0	4.5	5.1	2.6
22	11	12	10	9.2	9.3	8.1	.67	.86	4.3	4.5	5.3	2.7
23	7.7	12	9.8	9.5	8.5	8.1	.68	1.9	6.1	4.5	5.1	2.7
24	8.1	12	10	8.9	7.4	8.5	.57	1.9	7.6	4.8	5.5	2.6
25	10	12	10	9.6	9.3	8.1	.47	2.5	7.3	5.1	4.9	2.6
26	9.3	12	10	9.5	8.4	8.2	.95	2.3	6.6	4.8	4.0	2.9
27	12	12	10	9.3	7.1	13	2.9	1.9	7.0	4.6	4.8	4.1
28	13	11	10	9.2	7.5	11	9.2	2.3	6.3	4.6	4.2	3.6
29	12	11	10	9.0	---	9.5	9.2	2.4	6.2	4.3	4.8	3.0
30	12	11	10	8.9	---	11	9.2	2.3	4.6	3.7	5.6	3.7
31	12	---	9.9	8.9	---	10	---	2.9	---	3.6	3.9	---
TOTAL	265.6	361.3	315.3	291.6	244.7	250.3	180.54	188.74	133.1	161.9	136.2	92.7
MEAN	8.57	12.0	10.2	9.41	8.74	8.07	6.02	6.09	4.44	5.22	4.39	3.09
MAX	13	19	11	10	9.5	13	18	11	7.6	7.8	6.0	5.1
MIN	2.5	7.6	7.7	8.9	7.1	4.7	.47	.86	1.2	3.6	3.1	1.7
AC-FT	527	717	625	578	485	496	358	374	264	321	270	184

CAL YR 1980 TOTAL 7281.50 MEAN 19.9 MAX 135 MIN 1.6 AC-FT 14440
WTR YR 1981 TOTAL 2621.98 MEAN 7.18 MAX 19 MIN .47 AC-FT 5200

09306007 PICEANCE CREEK BELOW RIO BLANCO, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--April 1974 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: December 1974 to current year.
pH: December 1974 to current year.
WATER TEMPERATURE: December 1974 to current year.
DISSOLVED OXYGEN: December 1974 to current year.
SUSPENDED SEDIMENT DISCHARGE: April 1974 to current year.

INSTRUMENTATION.--Automatic pumping sediment sampler since April 1974. Water-quality monitor since December 1974.

REMARKS.--Daily maximum and minimum specific-conductance data available in district office.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 1,690 micromhos June 21, 1976; freezing, 344 micromhos Apr. 13, 1976.
WATER TEMPERATURES: Maximum, 29.5°C July 25, 1977; minimum, freezing point on many days during winter months each year.
DISSOLVED OXYGEN: Maximum, 15.7 mg/L Oct. 8, 1975; minimum, 5.1 mg/L July 17, 1979.
pH: Maximum, 9.0 units June 21, 1976; minimum, 7.0 units May 24, 1976.
SEDIMENT CONCENTRATIONS: Maximum daily, 20,300 mg/L July 20, 1974; minimum daily, 6 mg/L several days during September 1976.
SEDIMENT LOADS: Maximum daily, 4,580 tons (4,150 t) July 20, 1974; minimum daily, 0.02 ton (0.02 t) Apr. 20, 1981.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 1,390 micromhos Apr. 24; minimum, 878 micromhos Feb. 24.
WATER TEMPERATURES: Maximum, 26.5 June 26; minimum, freezing point on many days November to February.
DISSOLVED OXYGEN: Maximum, 11.7 mg/L Nov. 11; minimum, 5.4 mg/L Aug. 13.
pH: Maximum 8.7 units several days from December to September; minimum, 7.8 units several days during October and November.
SEDIMENT CONCENTRATIONS: Maximum daily, 623 mg/L April 7; minimum daily, 8 mg/L Aug. 21, 23.
SEDIMENT LOADS: Maximum daily, 34 tons (31 t) April 7; minimum daily, 0.02 ton (0.02 t) Apr. 20.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	BICAR-BONATE FET-FLD (MG/L AS HCO3)	ALKA-LINITY LAB (MG/L AS CACO3)	OXYGEN DEMAND, CHEM-ICAL (HIGH LEVEL) (MG/L)	COLI-FORM, TOTAL, IMMED. (COLS. PER 100 ML)
OCT											
14...	1040	6.8	1220	1220	7.9	10.0	9.2	570	470	--	--
NOV											
04...	1030	12	1140	1159	7.9	6.5	10.0	540	440	--	--
DEC											
10...	1010	9.6	1070	1130	7.9	.0	12.7	520	430	11	--
JAN											
13...	0945	7.4	1130	1120	7.8	.0	12.3	520	430	--	--
23...	1505	9.9	1040	1040	8.4	4.3	10.6	460	380	--	--
FEB											
11...	1015	17	1150	1170	8.2	.0	11.3	510	420	--	--
MAR											
03...	0930	6.5	1060	1060	8.3	3.0	11.1	500	410	--	--
APR											
15...	1010	2.4	1200	1220	8.2	11.0	9.4	--	450	--	580
MAY											
12...	0945	9.9	1080	1090	8.2	8.0	9.8	510	420	--	--
JUN											
09...	0950	1.8	1300	1290	8.0	15.0	7.8	610	500	--	--
JUL											
07...	0940	5.0	1160	1120	8.3	14.5	9.8	510	420	27	250
AUG											
04...	0945	3.4	1160	1170	8.3	15.0	8.6	550	450	--	--
SEP											
15...	1000	1.8	1240	1200	8.2	12.5	9.9	570	470	--	--

09306007 PICEANCE CREEK BELOW RIO BLANCO, CO--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	COLI-FORM, FECAL, 0.7 UM-MF (COLS./100 ML)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD-NESS (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	SULFIDE TOTAL (MG/L AS S)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)
OCT											
14...	--	--	380	68	52	150	3.3	4.3	--	190	15
NOV											
04...	--	--	370	70	48	130	2.9	2.8	--	170	13
DEC											
10...	K12	180	380	75	47	120	2.7	3.7	.0	160	11
JAN											
13...	--	--	370	70	47	130	2.9	2.2	--	180	14
23...	--	--	340	65	43	120	2.8	2.1	--	180	13
FEB											
11...	--	--	400	79	50	130	2.8	2.3	--	200	17
MAR											
03...	--	--	360	71	44	120	2.8	2.2	--	170	13
APR											
15...	K370	200	390	72	51	150	3.3	3.0	.2	220	49
MAY											
12...	--	--	360	70	46	120	2.7	2.1	--	180	12
JUN											
09...	--	--	420	78	54	140	3.0	3.0	--	230	12
JUL											
07...	62	760	370	66	49	140	3.2	2.4	.4	200	13
AUG											
04...	--	--	380	72	49	140	3.5	2.4	--	190	13
SEP											
15...	--	--	390	69	53	140	3.5	3.2	--	220	14

DATE	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	BROMIDE DIS-SOLVED (MG/L AS BR)	IODIDE, DIS-SOLVED (MG/L AS I)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN DIS-SOLVED (MG/L AS N)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N)
OCT											
14...	.4	--	--	17	780	1.1	14.3	.46	.010	1.1	.60
NOV											
04...	.9	--	--	15	717	.98	23.2	.25	.120	.78	.41
DEC											
10...	1.7	.00	--	17	697	.95	18.1	.66	.000	1.2	.58
JAN											
13...	1.3	--	--	16	720	.98	14.4	.65	.070	2.1	1.3
23...	1.0	--	--	16	671	.91	17.9	.59	.070	.97	.31
FEB											
11...	1.2	--	--	17	748	1.0	34.3	.09	.030	1.1	.97
MAR											
03...	.9	--	--	15	685	.93	12.0	.52	.080	1.1	.46
APR											
15...	.9	.10	--	14	833	1.1	5.4	.03	.030	.57	.51
MAY											
12...	.8	--	--	14	697	.95	18.6	.19	.090	1.0	.75
JUN											
09...	.9	--	--	17	836	1.1	4.1	.10	.090	.67	.48
JUL											
07...	1.0	.20	.020	15	740	1.0	10.0	.07	.070	.84	.70
AUG											
04...	.9	--	--	14	761	1.0	7.0	1.9	.080	2.9	.92
SEP											
15...	1.0	--	--	16	798	1.1	3.9	.05	.080	.87	.74

K BASED ON NON-IDEAL COLONY COUNT.

09306007 PICEANCE CREEK BELOW RIO BLANCO, CO--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	ARSENIC DIS-SOLVED (UG/L AS AS)	BORON, DIS-SOLVED (UG/L AS B)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C)	CARBON, ORGANIC SUS-PENDED TOTAL (MG/L AS C)	PHENOLS (UG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)
OCT											
14...	.61	.030	--	3	210	30	90	6.2	--	10	--
NOV											
04...	.53	.060	--	3	240	30	90	7.0	.3	3	--
DEC											
10...	.58	.050	--	2	230	10	70	12	--	0	--
JAN											
13...	1.4	.040	--	3	200	20	50	9.4	.4	2	--
23...	.38	--	.050	--	190	10	--	--	--	--	--
FEB											
11...	1.0	.070	--	4	220	10	50	17	.4	0	--
MAR											
03...	.54	.070	--	2	190	<10	60	6.4	1.2	0	--
APR											
15...	.54	.040	--	3	210	60	100	10	.2	2	.00
MAY											
12...	.84	.050	--	2	200	30	60	18	.2	0	--
JUN											
09...	.57	.100	--	2	210	90	200	6.0	.1	1	--
JUL											
07...	.77	.030	--	2	260	20	80	5.1	.1	0	--
AUG											
04...	1.0	.020	--	3	220	13	52	4.2	.1	3	--
SEP											
15...	.82	.020	--	2	230	13	200	4.8	.5	--	--

DATE	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	BARIUM, DIS-SOLVED (UG/L AS BA)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COPPER, DIS-SOLVED (UG/L AS CU)	LEAD, DIS-SOLVED (UG/L AS PB)	LITHIUM DIS-SOLVED (UG/L AS LI)	MERCURY DIS-SOLVED (UG/L AS HG)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	STRON-TIUM, DIS-SOLVED (UG/L AS SR)	ZINC, DIS-SOLVED (UG/L AS ZN)
DEC												
10...	10	100	<1	0	2	1	20	.0	<10	1	1600	<3
JAN												
23...	--	--	--	--	--	--	--	--	11	--	1500	--
FEB												
11...	--	--	--	--	--	--	--	--	--	--	--	--
MAR												
03...	--	--	--	--	--	--	--	--	--	--	--	--
APR												
15...	20	200	<1	10	3	2	10	.0	<10	1	1700	30
MAY												
12...	--	--	--	--	--	--	--	--	--	--	--	--
JUN												
09...	--	--	--	--	--	--	--	--	--	--	--	--
JUL												
07...	10	200	<1	10	2	2	20	.0	<10	0	1600	5

DATE	GROSS ALPHA, DIS-SOLVED (PCI/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (PCI/L AS U-NAT)	GROSS ALPHA, DIS-SOLVED (UG/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT)	GROSS BETA, DIS-SOLVED (PCI/L AS CS-137)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137)	GROSS BETA, DIS-SOLVED (PCI/L AS SR/YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/YT-90)	RADIUM 226, DIS-SOLVED, RADON METHOD (PCI/L)	URANIUM NATURAL DIS-SOLVED (UG/L AS U)	POTAS-SIUM 40 DIS-SOLVED (PCI/L AS K40)	CYANIDE TOTAL (MG/L AS CN)
DEC												
10...	6.0	.4	<8.8	.6	<5.2	1.0	<5.0	.9	.11	3.1	--	.00
JAN												
23...	--	--	--	--	--	--	--	--	--	--	1.6	--
FEB												
11...	--	--	--	--	--	--	--	--	--	--	1.7	--
MAR												
03...	--	--	--	--	--	--	--	--	--	--	1.6	--
APR												
15...	11	.3	<16	<.4	<8.5	<.4	<8.2	<.4	.07	2.8	2.2	.00
MAY												
12...	--	--	--	--	--	--	--	--	--	--	1.6	--
JUN												
09...	--	--	--	--	--	--	--	--	--	--	2.2	--
JUL												
07...	13	.3	<19	<.4	<8.4	<.4	<8.0	<.4	.08	2.5	1.8	.00

09306007 PICEANCE CREEK BELOW RIO BLANCO, CO--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG, C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1150	1100	1060	1050	1040	1030	1030	1080	1220	1160	1170	1170
2	1150	1100	1060	1050	---	1040	---	1070	1230	1160	1170	1170
3	1140	1100	1060	1050	1050	1050	---	1070	1240	1170	1160	1180
4	1140	1100	---	1050	1050	1050	---	1090	1240	1140	1150	1170
5	1140	1110	---	1020	1020	1070	---	1080	1240	1130	1130	1160
6	1140	1110	---	1050	1050	1030	---	1080	1190	1120	1140	1170
7	1160	1120	---	1050	1060	1040	983	1200	1190	1130	1140	1180
8	1160	1150	---	1060	1050	1050	988	1210	1230	1130	1140	1180
9	1180	1160	---	1060	1040	1050	1010	1130	1270	1130	1140	1190
10	---	1140	1050	1050	1030	1050	1010	1090	1280	1060	1110	1190
11	1180	1130	1060	1060	---	1050	984	---	1180	1060	1110	1220
12	1170	1110	1060	1050	1020	1050	1070	---	1160	1050	1100	1230
13	1180	1080	1060	1050	1030	1050	1110	1090	1140	1090	1100	1220
14	1180	1080	1060	1060	1030	1050	1160	1100	1140	1110	1110	1220
15	1180	1080	1050	1050	1020	1040	1200	1090	1130	1130	1120	1240
16	1160	1080	1050	1050	1020	1040	1210	1090	1150	1150	1120	1230
17	1170	1080	1050	1050	1030	1030	1210	1080	1180	1150	1130	1240
18	1170	1070	1050	1050	1020	1040	1280	1110	1170	1140	1130	1240
19	1160	1070	1050	1050	1010	1040	1290	1150	1190	1150	1150	1230
20	1140	1070	1050	1050	1000	1040	1290	1200	1190	1150	1150	1240
21	1130	1070	1050	1050	1030	1020	1290	1290	1170	1160	1150	1240
22	1100	1060	1040	1050	1030	1040	1300	1320	1160	1230	1140	1240
23	1180	1060	1040	1050	1030	1040	1310	1300	1120	1220	1130	1240
24	1190	1060	1050	1050	1030	1030	1320	1320	1060	1200	1130	1240
25	1090	1060	1050	1040	1000	1040	1320	1310	1050	1190	1130	1280
26	1100	1060	1050	1050	972	1030	1280	1320	1050	1200	1150	1270
27	1080	1040	1040	1040	1010	1020	1240	1300	1060	1190	1140	1210
28	1080	1060	1050	1040	1020	995	1060	1250	1050	1180	1150	1200
29	1140	1060	1050	1040	---	1020	1050	1250	1090	1180	1150	1230
30	1090	1060	1050	1040	---	1000	1060	1240	1160	1200	1120	1210
31	1090	---	1050	1030	---	1030	---	1230	---	1180	1170	---

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	16.5	6.5	11.0	5.0	5.0	2.0	4.5	.0	3.5	.5	9.0	2.0
2	15.0	6.0	10.5	5.0	5.5	2.0	6.0	.5	---	---	8.5	2.0
3	15.5	5.5	10.0	5.0	4.5	4.5	6.0	1.5	1.0	.5	7.5	1.5
4	16.0	5.5	11.5	6.0	---	---	6.0	2.0	1.0	.5	11.0	2.0
5	15.5	6.0	11.0	5.5	---	---	5.0	2.0	2.0	.5	10.5	1.0
6	15.5	6.0	10.0	5.0	---	---	4.0	1.0	4.0	.5	5.0	.0
7	14.0	6.0	10.0	5.5	---	---	2.5	.0	2.0	.5	7.5	1.0
8	14.0	6.5	9.0	5.0	---	---	1.5	.0	4.5	.5	9.5	.5
9	9.5	6.0	10.5	3.0	---	---	3.0	.0	6.0	1.5	12.0	.5
10	---	---	10.0	3.5	1.5	.5	4.0	.0	3.0	.5	12.0	1.0
11	8.0	5.5	9.0	3.5	3.0	.0	2.0	.0	---	---	8.0	1.0
12	11.5	6.5	9.0	6.0	3.0	.0	2.5	.0	6.0	.5	10.0	4.0
13	15.0	9.0	7.0	4.5	1.5	.0	1.5	.0	7.5	.5	10.5	1.5
14	11.5	7.5	6.0	2.0	2.5	.0	2.0	.0	7.0	1.0	11.0	1.5
15	10.5	6.5	5.0	.0	4.5	.0	3.5	.0	9.5	2.5	13.0	1.5
16	9.0	5.0	4.5	.5	5.0	1.0	4.0	.0	10.0	2.0	11.0	1.5
17	9.5	6.5	4.0	.0	5.5	1.0	5.0	1.5	7.5	2.0	7.5	2.0
18	11.0	6.0	4.5	.0	5.5	1.5	4.5	.0	9.0	2.0	11.0	1.5
19	13.5	4.5	5.0	.0	5.5	1.0	4.0	.0	9.0	1.5	11.5	2.0
20	13.5	4.5	5.0	.5	5.5	.5	5.0	.0	4.5	1.0	9.0	4.5
21	13.0	4.5	5.0	.0	5.0	1.0	3.5	.0	7.0	.0	7.5	2.0
22	10.5	5.5	5.5	.5	6.5	3.5	4.0	.0	8.0	.0	11.0	1.0
23	10.0	4.0	6.5	2.0	6.0	2.0	5.0	.0	9.5	.0	12.5	2.5
24	11.0	3.0	4.5	2.5	5.0	.5	5.0	.5	10.0	.0	8.0	4.0
25	10.5	3.5	5.0	1.5	6.5	3.0	5.0	.5	8.5	.5	13.5	1.0
26	8.5	5.0	4.5	.5	6.0	2.0	3.5	.5	6.0	1.5	15.0	4.0
27	7.0	5.0	3.5	.0	7.0	2.0	5.0	.5	11.0	2.0	12.0	4.0
28	8.0	3.5	5.5	1.0	6.5	2.5	6.5	3.0	10.5	1.0	7.0	3.0
29	7.5	2.0	6.0	1.5	4.5	.5	7.5	3.5	---	---	14.5	2.0
30	11.0	4.5	6.5	3.5	4.5	.0	4.0	1.5	---	---	6.0	2.0
31	11.0	5.0	---	---	4.5	.0	3.0	.5	---	---	12.5	.0
MONTH	16.5	2.0	11.5	.0	7.0	.0	7.5	.0	11.0	.0	15.0	.0

09306007 PICEANCE CREEK BELOW RIO BLANCO, CO--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	13.0	1.5	22.0	7.0	21.5	8.0	17.5	13.5	23.0	14.0	19.5	10.5
2	---	---	19.0	9.5	21.5	8.0	22.0	13.0	22.5	11.5	18.5	11.5
3	---	---	12.5	7.5	19.0	10.0	22.5	11.0	23.5	12.0	18.0	12.0
4	---	---	20.5	5.5	22.5	10.0	25.0	10.0	23.0	12.0	19.0	10.0
5	---	---	18.0	5.0	24.0	8.5	26.5	10.5	23.5	10.5	14.5	13.0
6	---	---	19.0	8.0	23.5	9.0	25.5	11.0	23.0	10.5	15.5	12.0
7	8.5	5.5	16.5	5.0	22.0	11.0	25.0	12.0	22.5	11.0	18.0	12.0
8	11.0	3.5	13.0	5.0	22.5	10.0	26.0	12.5	22.0	10.5	19.5	9.5
9	17.0	3.5	16.5	5.0	23.5	10.5	23.0	13.0	22.0	12.0	18.5	12.5
10	17.5	4.0	18.0	4.5	24.0	10.5	23.5	12.0	17.0	12.0	15.5	11.5
11	16.5	4.0	---	---	24.0	10.0	21.5	13.0	15.5	10.5	18.5	10.5
12	15.5	3.5	---	---	23.5	10.0	20.0	14.0	20.0	11.0	17.5	9.5
13	18.5	5.5	19.0	9.0	22.0	9.5	20.0	14.5	18.5	11.5	18.5	10.5
14	15.0	3.5	19.5	5.5	16.0	7.5	24.0	13.5	18.0	12.0	19.0	10.5
15	16.0	7.0	16.0	8.0	20.5	5.5	24.5	12.0	18.0	11.5	17.5	9.5
16	16.5	4.5	15.0	8.0	22.0	6.5	17.0	13.0	20.5	11.0	17.5	9.5
17	17.0	4.5	13.0	7.5	21.5	8.0	18.0	12.5	20.5	11.0	17.5	8.5
18	16.0	5.0	20.0	8.0	21.5	8.5	22.0	12.0	20.5	10.5	17.5	8.5
19	18.0	8.0	15.5	7.5	23.0	8.5	23.5	12.0	19.0	10.5	17.0	8.5
20	15.5	5.5	12.0	8.0	21.5	9.5	23.5	10.5	20.0	11.0	16.5	9.0
21	14.5	4.0	12.5	7.5	23.0	9.5	24.0	11.0	15.0	10.5	17.5	10.5
22	16.5	5.0	14.0	7.0	25.0	9.5	23.5	11.5	19.0	10.5	17.0	10.5
23	20.5	4.0	18.5	8.5	21.0	10.0	24.5	11.5	19.5	10.5	15.5	9.5
24	21.0	4.5	17.0	6.0	25.0	10.5	22.5	12.5	17.0	11.0	15.5	10.0
25	21.0	6.5	15.5	7.5	24.5	10.0	24.0	13.0	21.5	10.5	16.0	10.0
26	20.5	4.5	14.5	8.0	26.5	12.0	23.0	13.0	21.0	11.5	15.0	8.0
27	18.5	6.0	18.5	9.0	24.0	13.0	23.0	10.5	19.5	12.5	15.5	7.0
28	20.5	6.0	22.0	9.5	23.0	13.5	21.5	10.5	19.5	11.5	15.0	8.0
29	21.5	6.0	19.5	9.5	24.5	11.0	21.0	11.0	18.5	12.0	14.0	9.0
30	20.5	6.5	22.5	8.0	25.0	11.0	17.5	11.5	19.0	12.0	15.0	9.5
31	---	---	18.0	10.5	---	---	23.0	11.5	20.0	11.5	---	---
MONTH	21.5	1.5	22.5	4.5	26.5	5.5	26.5	10.0	23.5	10.5	19.5	7.0

PH (STANDARD UNITS), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	8.3	8.3	8.1	7.9	8.3	8.2	8.7	8.6	8.5	8.5	8.5	8.5
2	8.4	8.3	8.1	7.8	8.4	8.2	8.7	8.6	---	---	8.5	8.5
3	8.4	8.3	8.1	7.8	8.2	8.2	8.6	8.5	8.5	8.4	8.6	8.5
4	8.4	8.3	8.1	7.8	---	---	8.6	8.5	8.5	8.4	8.6	8.5
5	8.4	8.3	8.1	7.8	---	---	8.6	8.5	8.5	8.4	8.6	8.5
6	8.4	8.2	8.2	7.8	---	---	8.5	8.4	8.5	8.5	8.6	8.5
7	8.3	8.1	8.2	7.9	---	---	8.5	8.4	8.5	8.4	8.6	8.5
8	8.3	8.1	8.1	7.9	---	---	8.5	8.4	8.5	8.5	8.6	8.5
9	8.2	8.0	8.2	7.9	---	---	8.5	8.4	8.5	8.5	8.6	8.5
10	---	---	8.2	7.9	---	---	8.5	8.5	8.5	8.5	8.6	8.5
11	8.1	8.0	8.2	7.9	8.4	8.2	8.5	8.4	---	---	8.6	8.5
12	8.1	7.9	8.2	7.9	8.2	8.2	8.5	8.4	8.6	8.5	8.6	8.5
13	8.0	7.8	8.2	8.0	8.2	8.1	8.5	8.5	8.5	8.5	8.6	8.5
14	7.9	7.8	8.3	8.1	8.1	8.1	8.5	8.5	8.5	8.5	8.6	8.5
15	8.0	7.9	8.3	8.1	8.1	8.0	8.5	8.5	8.5	8.4	8.6	8.5
16	8.0	7.9	8.3	8.1	8.1	8.0	8.5	8.5	8.5	8.5	8.6	8.5
17	8.1	7.9	8.3	8.1	8.1	8.0	8.5	8.5	8.5	8.5	8.6	8.5
18	8.1	7.9	8.3	8.1	8.1	8.0	8.5	8.5	8.6	8.5	8.6	8.5
19	8.1	7.9	8.3	8.2	8.2	8.1	8.5	8.5	8.5	8.4	8.6	8.4
20	8.2	7.9	8.3	8.2	8.2	8.1	8.5	8.5	8.5	8.4	8.6	8.4
21	8.2	8.0	8.3	8.2	8.3	8.1	8.5	8.5	8.6	8.5	8.6	8.5
22	8.2	8.0	8.3	8.2	8.3	8.2	8.5	8.5	8.6	8.5	8.6	8.5
23	8.2	8.0	8.4	8.1	8.3	8.2	8.5	8.5	8.6	8.5	8.6	8.5
24	8.3	8.0	8.3	8.1	8.4	8.3	8.5	8.5	8.5	8.5	8.6	8.5
25	8.3	8.0	8.4	8.2	8.4	8.3	8.5	8.5	8.6	8.4	8.6	8.5
26	8.3	8.0	8.4	8.2	8.4	8.3	8.5	8.5	8.5	8.5	8.6	8.4
27	8.2	8.0	8.3	8.2	8.5	8.4	8.5	8.5	8.6	8.5	8.6	8.4
28	8.2	8.0	8.3	8.2	8.5	8.4	8.5	8.5	8.6	8.5	8.6	8.5
29	8.1	7.9	8.4	8.2	8.5	8.4	8.5	8.5	---	---	8.6	8.5
30	8.2	7.9	8.4	8.2	8.6	8.5	8.5	8.4	---	---	8.6	8.5
31	8.1	7.9	---	---	8.7	8.5	8.5	8.5	---	---	8.6	8.5
MONTH	8.4	7.8	8.4	7.8	8.7	8.0	8.7	8.4	8.6	8.4	8.6	8.4

09306007 PICEANCE CREEK BELOW RIO BLANCO, CO--Continued

PH (STANDARD UNITS), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	8.6	8.5	8.6	8.4	8.3	8.0	8.5	8.2	8.5	8.3	8.6	8.2
2	---	---	8.6	8.4	8.3	8.0	8.5	8.2	8.5	8.4	8.7	8.3
3	---	---	8.6	8.4	8.2	8.0	8.5	8.2	8.5	8.4	8.6	8.3
4	---	---	8.6	8.4	8.3	8.0	8.5	8.2	8.5	8.4	8.6	8.3
5	---	---	8.6	8.4	8.2	8.0	8.5	8.2	8.5	8.4	8.6	8.4
6	---	---	8.7	8.2	8.3	8.1	8.5	8.2	8.5	8.4	8.6	8.3
7	8.6	8.5	8.5	8.2	8.4	8.0	8.6	8.2	8.5	8.4	8.6	8.3
8	8.6	8.5	8.5	8.1	8.3	7.9	8.5	8.2	8.5	8.4	8.6	8.3
9	8.6	8.5	8.5	8.1	8.2	7.9	8.5	8.2	8.5	8.4	8.6	8.1
10	8.6	8.5	8.5	8.3	8.2	8.0	8.5	8.3	8.5	8.4	8.5	8.1
11	8.6	8.5	---	---	8.4	8.0	8.5	8.3	8.6	8.4	8.6	8.3
12	8.7	8.5	---	---	8.5	8.3	8.5	8.3	8.6	8.3	8.6	8.3
13	8.6	8.4	8.5	8.3	8.6	8.3	8.5	8.2	8.6	8.4	8.6	8.3
14	8.5	8.2	8.5	8.3	8.6	8.3	8.5	8.3	8.6	8.3	8.6	8.3
15	8.5	8.3	8.5	8.3	8.6	8.3	8.4	8.2	8.5	8.3	8.5	8.3
16	8.5	8.3	8.5	8.3	8.5	8.3	8.4	8.3	8.6	8.3	8.6	8.3
17	8.6	8.3	8.5	8.3	8.5	8.3	8.4	8.3	8.5	8.3	8.5	8.3
18	8.5	8.2	8.5	8.3	8.5	8.2	8.4	8.2	8.6	8.3	8.5	8.3
19	8.4	8.2	8.5	8.2	8.5	8.3	8.4	8.3	8.5	8.3	8.5	8.3
20	8.4	8.3	8.4	8.2	8.4	8.2	8.4	8.3	8.6	8.3	8.5	8.3
21	8.4	8.2	8.3	7.9	8.4	8.2	8.4	8.3	8.6	8.3	8.5	8.3
22	8.4	8.2	8.2	7.9	8.4	8.2	8.5	8.3	8.6	8.3	8.5	8.3
23	8.4	8.2	8.3	8.0	8.4	8.3	8.6	8.3	8.7	8.3	8.5	8.3
24	8.4	8.2	8.2	8.0	8.4	8.3	8.5	8.3	8.7	8.3	8.4	8.2
25	8.4	8.2	8.2	8.0	8.4	8.3	8.5	8.3	8.7	8.3	8.5	8.2
26	8.5	8.2	8.2	7.9	8.4	8.3	8.5	8.3	8.7	8.3	8.4	8.2
27	8.6	8.2	8.3	7.9	8.4	8.2	8.5	8.3	8.6	8.3	8.5	8.3
28	8.6	8.5	8.3	8.0	8.4	8.2	8.5	8.4	8.6	8.3	8.5	8.3
29	8.6	8.5	8.3	8.0	8.4	8.2	8.5	8.3	8.6	8.2	8.5	8.2
30	8.6	8.4	8.2	7.9	8.5	8.2	8.5	8.4	8.5	8.2	8.4	8.2
31	---	---	8.3	8.0	---	---	8.5	8.4	8.6	8.2	---	---
MONTH	8.7	8.2	8.7	7.9	8.6	7.9	8.6	8.2	8.7	8.2	8.7	8.1

OXYGEN, DISSOLVED (DO), MG/L, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	10.7	8.6	10.4	7.7	10.5	8.9	10.7	9.1	10.6	10.0	10.6	9.0
2	10.6	8.8	10.5	7.8	10.4	8.5	10.7	8.7	---	---	10.6	9.2
3	10.6	8.7	10.7	7.7	9.3	8.7	10.6	8.7	10.6	10.3	10.7	9.3
4	10.4	8.6	10.5	7.4	---	---	10.4	8.6	10.6	9.9	10.5	8.8
5	10.2	8.6	10.5	7.6	---	---	10.5	8.9	10.7	10.1	10.8	8.7
6	10.1	8.1	11.0	8.0	---	---	10.7	9.3	10.7	9.7	10.9	9.7
7	11.2	8.3	10.9	8.4	---	---	10.7	9.7	10.6	10.0	10.7	9.7
8	11.1	9.1	11.7	8.5	---	---	10.7	9.7	10.7	9.6	11.1	9.2
9	10.4	9.1	11.6	8.3	---	---	10.6	9.5	10.3	9.2	11.3	8.8
10	---	---	11.6	8.3	---	---	10.7	9.3	10.8	9.8	11.1	8.9
11	10.5	8.7	11.7	8.1	---	---	10.7	9.8	---	---	11.1	9.6
12	9.9	8.2	10.5	8.3	---	---	10.8	9.6	10.8	9.3	10.5	9.1
13	8.8	7.2	10.3	8.8	---	---	10.7	9.8	11.0	9.2	11.0	9.0
14	9.2	7.6	11.0	9.4	---	---	10.5	9.8	10.7	9.2	11.0	8.9
15	9.2	8.0	11.4	9.5	---	---	10.6	9.4	10.4	8.7	11.1	8.7
16	9.8	8.1	11.3	9.6	11.4	9.3	10.8	8.3	10.4	8.6	11.0	9.0
17	9.5	8.2	11.1	9.5	10.6	9.0	10.0	8.0	10.3	9.0	10.7	9.6
18	9.8	8.0	11.1	9.4	10.6	8.8	10.8	8.1	10.4	8.8	10.9	9.0
19	9.9	7.7	11.2	9.3	10.7	8.9	10.7	8.3	10.5	8.8	10.7	8.9
20	10.0	7.6	11.2	9.3	10.7	8.8	10.7	8.0	10.5	9.5	10.1	9.0
21	10.1	7.6	11.2	9.2	10.5	8.8	10.9	8.7	10.9	9.2	10.6	9.5
22	10.2	8.3	10.8	9.0	10.2	8.4	10.8	8.3	10.9	8.9	11.0	9.0
23	10.3	8.5	10.8	8.8	10.3	8.8	10.7	7.9	10.8	8.5	10.6	8.7
24	10.9	8.4	10.4	9.1	10.5	8.9	10.4	8.0	10.6	8.3	10.5	9.3
25	10.5	8.0	11.1	9.1	10.2	8.5	10.4	8.2	10.6	8.2	10.8	8.4
26	10.3	8.2	11.3	9.2	10.4	8.6	10.6	8.6	10.4	9.6	10.2	8.2
27	10.3	8.4	10.8	9.2	10.5	8.4	10.8	9.4	10.5	8.6	9.7	8.5
28	10.6	8.7	10.9	8.9	10.3	8.5	10.0	9.1	10.8	8.7	10.3	9.4
29	10.5	8.3	10.7	8.6	10.6	9.0	9.9	9.0	---	---	10.5	8.3
30	10.4	7.9	10.4	8.4	10.5	8.9	10.2	9.6	---	---	10.3	9.3
31	10.4	7.8	---	---	10.5	9.0	10.6	9.9	---	---	10.9	8.8
MONTH	11.2	7.2	11.7	7.4	11.4	8.4	10.9	7.9	11.0	8.2	11.3	8.2

09306007 PICEANCE CREEK BELOW RIO BLANCO, CO--Continued

OXYGEN, DISSOLVED (DO), MG/L, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	10.6	8.8	9.6	6.7	9.4	6.4	9.7	7.6	8.7	6.0		
2	---	---	9.0	7.0	9.5	6.6	10.2	7.0	8.7	5.9		
3	---	---	9.1	7.6	9.4	6.8	10.8	7.2	8.6	5.7		
4	---	---	9.8	6.7	9.3	6.4	10.6	6.6	8.6	5.7		
5	---	---	9.7	6.8	9.0	6.2	10.7	6.0	8.8	5.6		
6	---	---	9.3	6.2	8.9	6.2	10.2	5.9	8.9	5.7		
7	10.1	9.6	9.6	6.9	8.6	6.3	10.0	5.7	8.9	5.8		
8	10.5	9.3	9.9	7.2	8.7	6.2	---	---	8.8	5.8		
9	10.5	8.5	9.4	6.7	8.1	6.1	---	---	8.5	5.8		
10	10.4	8.3	9.4	6.4	8.1	6.1	---	---	8.4	6.3		
11	10.3	8.3	---	---	8.7	6.5	---	---	8.5	6.7		
12	10.4	8.3	---	---	9.0	6.6	---	---	8.3	6.4		
13	10.2	7.7	9.5	5.8	9.3	7.0	---	---	8.0	5.4		
14	10.3	7.4	9.3	6.1	9.8	7.8	---	---	8.3	5.8		
15	10.1	7.4	8.9	6.2	10.2	7.1	---	---	8.9	6.0		
16	10.8	8.1	8.7	6.4	10.0	7.1	9.7	8.0	9.2	5.9		
17	10.4	6.5	8.6	6.4	9.9	7.2	10.1	8.0	9.2	5.6		
18	10.0	6.4	8.6	6.1	9.8	6.9	10.1	7.2	9.1	6.0		
19	9.3	6.5	9.2	6.0	9.5	6.8	9.8	6.7	8.7	6.3		
20	9.7	6.8	9.4	7.0	9.1	6.6	9.9	6.5	8.9	6.2		
21	9.7	6.9	10.7	6.0	9.1	6.5	9.6	6.2	9.6	6.9		
22	9.8	6.3	10.7	6.1	9.0	6.1	9.2	6.1	---	---		
23	9.7	5.7	10.1	6.1	8.8	6.7	9.0	5.8	---	---		
24	8.7	5.7	9.5	6.6	8.7	6.3	8.9	6.4	---	---		
25	9.1	5.9	9.5	6.6	8.7	6.3	9.1	6.2	---	---		
26	8.6	5.6	9.5	6.7	8.7	6.5	9.1	6.8	---	---		
27	8.8	6.5	10.0	6.2	8.7	6.8	9.6	6.6	---	---		
28	9.1	6.5	10.0	6.0	9.0	7.0	9.4	6.8	---	---		
29	9.1	6.2	9.1	6.5	11.2	6.9	9.3	6.9	---	---		
30	8.8	7.0	9.3	5.9	9.7	6.6	8.7	6.2	---	---		
31	---	---	8.9	6.9	---	---	8.9	6.0	---	---		
MONTH	10.8	5.6	10.7	5.8	11.2	6.1	10.8	5.7	9.6	5.4		

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
		OCTOBER			NOVEMBER			DECEMBER	
1	7.8	62	1.3	11	38	1.1	11	---	2.5
2	7.9	44	.94	11	41	1.2	11	---	2.5
3	8.0	50	1.1	11	26	.77	11	---	2.5
4	8.0	52	1.1	11	40	1.2	10	---	2.5
5	8.1	34	.74	12	38	1.2	10	---	2.5
6	8.5	58	1.3	12	36	1.2	11	---	2.5
7	5.7	---	1.0	12	50	1.6	11	---	2.5
8	4.6	---	1.0	7.6	68	1.4	10	---	2.5
9	2.7	---	.50	8.1	72	1.6	9.7	---	2.5
10	2.5	---	.50	9.6	---	2.5	7.7	110	2.3
11	5.0	---	1.0	10	---	4.0	9.3	100	2.5
12	8.7	---	1.0	15	229	11	11	90	2.7
13	6.7	---	1.0	19	158	8.1	11	90	2.7
14	7.6	56	1.1	16	105	4.5	11	---	3.0
15	11	---	1.5	15	90	3.6	11	85	2.5
16	9.7	---	1.5	14	95	3.6	10	100	2.7
17	9.5	---	1.5	13	90	3.2	10	105	2.8
18	9.1	---	1.5	13	90	3.2	10	105	2.8
19	9.2	---	1.5	12	105	3.4	10	105	2.8
20	9.2	---	1.5	12	---	3.0	10	105	2.8
21	9.0	---	1.5	12	---	3.0	9.9	100	2.7
22	11	---	2.0	12	---	3.0	10	105	2.8
23	7.7	---	1.0	12	---	3.0	9.8	90	2.4
24	8.1	48	1.0	12	---	3.0	10	95	2.6
25	10	---	1.5	12	---	3.0	10	105	2.8
26	9.3	---	1.5	12	---	3.0	10	85	2.3
27	12	---	2.0	12	---	3.0	10	85	2.3
28	13	---	2.0	11	---	3.0	10	70	1.9
29	12	65	2.1	11	---	2.5	10	55	1.5
30	12	---	2.0	11	---	2.5	10	65	1.8
31	12	52	1.7	---	---	---	9.9	60	1.6
TOTAL	265.6	---	40.88	361.3	---	90.37	315.3	---	76.8

09306007 PICEANCE CREEK BELOW RIO BLANCO, CO--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
		JANUARY			FEBRUARY			MARCH	
1	9.9	70	1.9	8.8	75	1.8	6.4	---	2.0
2	9.9	100	2.7	8.8	240	5.7	5.5	---	1.0
3	9.9	65	1.7	8.8	135	3.2	5.3	62	.89
4	9.6	65	1.7	8.8	80	1.9	4.9	72	.95
5	10	65	1.8	8.8	170	4.0	4.7	135	1.7
6	9.8	55	1.5	8.8	80	1.9	6.9	125	2.3
7	9.6	100	2.6	8.8	110	2.6	7.7	105	2.2
8	9.5	110	2.8	8.8	90	2.1	7.7	95	2.0
9	9.2	100	2.5	8.8	110	2.6	7.4	105	2.1
10	9.4	100	2.5	8.8	90	2.1	8.8	127	3.0
11	9.4	100	2.5	8.8	140	3.3	9.0	150	3.6
12	9.3	100	2.5	8.8	110	2.6	8.3	100	2.2
13	9.2	100	2.5	8.8	150	3.6	8.0	95	2.1
14	9.2	130	3.2	8.8	70	1.7	7.7	120	2.5
15	9.1	105	2.6	9.1	105	2.6	7.7	105	2.2
16	9.2	70	1.7	8.9	105	2.5	7.4	70	1.4
17	9.2	---	2.0	8.9	95	2.3	9.3	161	4.0
18	9.4	---	2.0	9.0	130	3.2	8.3	80	1.8
19	9.8	---	2.0	9.2	130	3.2	7.7	65	1.4
20	9.5	90	2.3	9.4	230	5.8	7.8	50	1.1
21	9.5	90	2.3	9.5	265	6.8	8.3	65	1.5
22	9.2	105	2.6	9.3	210	5.3	8.1	60	1.3
23	9.5	90	2.3	8.5	230	5.3	8.1	60	1.3
24	8.9	60	1.4	7.4	204	4.1	8.5	70	1.6
25	9.6	50	1.3	9.3	---	5.0	8.1	65	1.4
26	9.5	65	1.7	8.4	---	4.0	8.2	---	2.0
27	9.3	55	1.4	7.1	---	3.0	13	---	2.5
28	9.2	80	2.0	7.5	---	2.5	11	---	2.0
29	9.0	80	1.9	---	---	---	9.5	---	2.0
30	8.9	80	1.9	---	---	---	11	---	2.5
31	8.9	80	1.9	---	---	---	10	---	2.0
TOTAL	291.6	---	65.7	244.7	---	94.7	250.3	---	60.54
		APRIL			MAY			JUNE	
1	9.8	96	2.5	9.1	20	.49	2.8	70	.53
2	10	126	3.4	9.1	15	.37	2.7	120	.87
3	15	---	10	11	30	.89	1.9	150	.77
4	12	---	5.0	9.8	50	1.3	1.9	75	.38
5	10	---	4.0	10	30	.81	2.2	65	.39
6	10	---	3.5	8.9	15	.36	3.8	95	.97
7	18	623	34	4.5	---	.20	3.4	85	.78
8	15	---	9.0	3.9	---	.30	2.8	45	.34
9	9.8	161	4.3	7.9	---	1.0	1.4	30	.11
10	8.6	---	5.0	10	---	2.0	1.2	50	.16
11	8.6	---	5.0	10	---	2.0	4.5	120	1.5
12	6.0	153	2.4	9.2	---	1.5	5.7	100	1.5
13	4.2	113	1.3	9.0	80	1.9	6.4	95	1.6
14	2.4	39	.25	9.1	100	2.5	6.1	60	.99
15	1.3	31	.11	9.4	130	3.3	5.6	50	.76
16	1.5	40	.16	9.6	110	2.9	4.9	35	.46
17	1.3	73	.26	9.8	140	3.7	3.7	45	.45
18	.88	27	.06	7.7	220	4.6	4.5	60	.73
19	.77	24	.05	5.3	190	2.7	4.0	120	1.3
20	.77	10	.02	3.2	160	1.4	3.6	115	1.1
21	.78	22	.05	.98	150	.40	4.0	105	1.1
22	.67	15	.03	.86	70	.16	4.3	80	.93
23	.68	30	.06	1.9	---	1.5	6.1	210	3.8
24	.57	30	.05	1.9	---	1.0	7.6	135	2.8
25	.47	25	.03	2.5	---	1.0	7.3	85	1.7
26	.95	21	.05	2.3	---	.50	6.6	110	2.0
27	2.9	48	.84	1.9	---	---	7.0	55	1.0
28	9.2	---	1.5	2.3	---	---	6.3	55	.94
29	9.2	30	.75	2.4	---	---	6.2	65	1.1
30	9.2	20	.50	2.3	---	---	4.6	65	.81
31	---	---	---	2.9	---	---	---	---	---
TOTAL	180.54	---	94.17	188.74	---	38.78	133.1	---	31.87

09306007 PICEANCE CREEK BELOW RIO BLANCO, CO--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
		JULY			AUGUST			SEPTEMBER	
1	5.7	66	1.0	3.6	45	.44	4.0	---	.30
2	5.7	75	1.2	3.3	50	.45	4.0	24	.30
3	5.4	85	1.2	3.2	55	.48	4.1	---	.30
4	6.3	100	1.7	3.2	50	.43	3.8	---	.20
5	5.7	95	1.5	3.3	40	.36	4.4	---	.30
6	5.5	60	.89	3.1	40	.33	5.1	---	.50
7	4.9	45	.60	3.3	33	.29	4.9	---	.30
8	4.9	50	.66	3.4	32	.29	3.9	---	.20
9	6.0	69	1.2	3.4	30	.28	2.7	---	.20
10	7.5	63	1.3	4.6	45	.56	2.3	---	.20
11	7.5	54	1.1	5.4	35	.51	2.4	---	.20
12	7.8	52	1.1	6.0	37	.60	2.2	---	.20
13	5.5	43	.64	5.3	35	.50	2.4	---	.20
14	5.8	45	.70	4.9	35	.46	2.2	---	.20
15	5.0	43	.58	4.7	24	.30	1.7	109	.50
16	5.0	30	.41	3.8	17	.17	2.2	---	.30
17	5.0	45	.61	3.7	128	1.3	2.3	45	.28
18	5.0	40	.54	4.6	112	1.4	2.6	64	.45
19	4.2	35	.40	5.1	32	.44	2.6	72	.51
20	4.5	110	1.3	5.1	40	.55	2.4	56	.36
21	4.5	60	.73	5.1	8	.11	2.6	64	.45
22	4.5	56	.68	5.3	11	.16	2.7	56	.41
23	4.5	45	.55	5.1	8	.11	2.7	53	.39
24	4.8	55	.71	5.5	64	.95	2.6	64	.45
25	5.1	40	.55	4.9	38	.50	2.6	40	.28
26	4.8	35	.45	4.0	40	.43	2.9	56	.44
27	4.6	23	.29	4.8	37	.48	4.1	104	1.2
28	4.6	32	.40	4.2	---	.50	3.6	64	.62
29	4.3	25	.29	4.8	---	.50	3.0	32	.26
30	3.7	30	.30	5.6	---	.50	3.7	48	.48
31	3.6	50	.49	3.9	---	.50	---	---	---
TOTAL	161.9	---	24.07	136.2	---	14.88	92.7	---	10.98
YEAR	2621.98		643.74						

09306015 MIDDLE FORK STEWART GULCH NEAR RIO BLANCO, CO

LOCATION.--Lat 39°47'20", long 108°10'23", in NE¼SW¼ sec.16, T.3 S., R.96 W., Rio Blanco County, Hydrologic Unit 14050006, on right bank 0.8 mi (1.3 km) upstream from confluence with East Fork and 12.8 mi (20.6 km) west of Rio Blanco.

DRAINAGE AREA.--24.0 mi² (62.2 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1974 to September 1976, Mar. 22, 1978, to current year.

REVISED RECORDS.--WDR CO-79-3: Drainage area.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 6,592 ft (2,009.2 m), from topographic map.

REMARKS.--Records excellent except for days of flow, which are poor. Diversions for irrigation of hay meadows above station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3.2 ft³/s (0.091 m³/s) Feb. 9, 1976, gage height, 1.40 ft (0.427 m); no flow most days most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1.3 ft³/s (0.037 m³/s) at 1500 Feb. 15, gage height, 1.23 ft (0.375 m); no flow most days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

FEB. 15 0.14 FEB. 16 0.11

CAL YR 1980	TOTAL 0.00	MEAN 0.00	MAX 0.00	MIN 0.00	AC-FT 0.00
WTR YR 1981	TOTAL 0.25	MEAN 0.00	MAX 0.14	MIN 0.00	AC-FT 0.5

09306015 MIDDLE FORK STEWART GULCH NEAR RIO BLANCO, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--April 1974 to September 1976, March 1978 to September 1981 (discontinued).

INSTRUMENTATION.--Water-quality monitor since March 1978.

REMARKS.--Two days of flow during the winter period.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 1,900 micromhos Feb. 15, 1981; minimum, 1,430 micromhos Feb. 15, 1981.
WATER TEMPERATURES: Maximum, 3.0°C Feb. 16, 1981; minimum, 1.0°C Feb. 15, 1981.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 1,900 micromhos Feb. 15; minimum, 1,430 micromhos Feb. 15.
WATER TEMPERATURES: Maximum, 3.0°C Feb. 16; minimum, 1.0°C Feb. 15.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1					---							
2					---							
3					---							
4					---							
5					---							
6					---							
7					---							
8					---							
9					---							
10					---							
11					---							
12					---							
13					---							
14					---							
15					1620							
16					---							
17					---							
18					---							
19					---							
20					---							
21					---							
22					---							
23					---							
24					---							
25					---							
26					---							
27					---							
28					---							
29					---							
30					---							
31					---							

09306015 MIDDLE FORK STEWART GULCH NEAR RIO BLANCO, CO--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1									---	---		
2									---	---		
3									---	---		
4									---	---		
5									---	---		
6									---	---		
7									---	---		
8									---	---		
9									---	---		
10									---	---		
11									---	---		
12									---	---		
13									---	---		
14									---	---		
15									2.0	1.0		
16									3.0	1.5		
17									---	---		
18									---	---		
19									---	---		
20									---	---		
21									---	---		
22									---	---		
23									---	---		
24									---	---		
25									---	---		
26									---	---		
27									---	---		
28									---	---		
29									---	---		
30									---	---		
31									---	---		

09306022 STEWART GULCH ABOVE WEST FORK, NEAR RIO BLANCO, CO

LOCATION.--Lat 39°49'09", long 108°11'08", in SE¼NE¼ sec.5, T.3 S., R.96 W., Rio Blanco County, Hydrologic Unit 14050006, on left bank 0.6 mi (1.0 km) upstream from mouth, about 300 ft (91 m) above mouth of West Fork Stewart Gulch, and 14.2 mi (22.8 km) west of Rio Blanco.

DRAINAGE AREA.--44.0 mi² (114 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1974 to current year.

REVISED RECORDS.--WDR CO-77-3: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 6,430 ft (1,960 m), from topographic map.

REMARKS.--Records good. Diversion immediately upstream from gage for irrigation of about 20 acres (81,000 m²) of grassland.

AVERAGE DISCHARGE.--7 years, 1.60 ft³/s (0.045 m³/s), 1,160 acre-ft/yr (1.43 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 38 ft³/s (1.08 m³/s) July 19, 1977, gage height, 4.05 ft (1.234 m); no flow Aug. 7, 1975.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4.3 ft³/s (0.12 m³/s) at 1000 Apr. 7, gage height, 2.93 ft (0.893 m); maximum gage height, 3.06 ft (0.933 m) at 1415 Jan. 6, (backwater from ice); minimum daily discharge, 0.35 ft³/s (0.001 m³/s) Mar. 6-8, 11-14.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.5	2.0	2.1	2.4	2.5	1.8	1.2	1.7	1.7	1.6	1.2	1.2
2	2.6	2.0	2.1	2.5	2.3	1.8	1.2	1.9	1.7	1.7	1.2	1.0
3	2.6	2.2	2.2	2.5	2.2	1.5	1.3	2.0	1.7	1.6	1.2	1.1
4	2.6	2.1	2.1	2.5	2.3	.81	1.3	1.9	1.7	1.7	1.1	1.1
5	2.6	2.2	2.2	2.5	2.3	.74	1.3	1.9	1.7	1.5	1.1	1.1
6	2.4	2.2	2.1	2.2	2.2	.35	1.4	2.0	1.7	1.6	1.1	1.1
7	2.4	2.2	2.1	2.4	2.2	.35	1.7	1.9	1.7	1.5	1.2	1.1
8	2.3	2.1	2.3	2.4	2.1	.35	1.9	1.9	1.6	1.4	1.2	1.1
9	2.3	2.1	2.3	2.3	1.9	.41	1.9	2.0	1.6	1.4	1.2	1.0
10	2.2	2.2	2.2	2.3	1.7	.41	1.9	1.8	1.5	1.4	1.3	1.1
11	2.3	2.2	2.1	2.2	1.7	.35	2.0	1.8	1.5	1.4	1.2	1.1
12	2.4	2.1	2.1	2.2	1.7	.35	2.0	1.8	1.5	1.4	1.2	1.0
13	2.4	2.2	2.1	2.2	1.7	.35	2.0	1.8	1.5	1.6	1.3	1.0
14	2.5	2.2	2.2	2.1	1.7	.35	2.0	1.7	1.4	1.5	1.2	.99
15	2.4	2.2	2.2	2.2	1.6	.41	2.0	1.7	1.4	1.4	1.2	.99
16	2.4	2.2	2.2	2.2	1.7	.47	2.0	1.7	1.4	1.4	1.2	.92
17	2.5	2.1	2.4	2.2	1.7	.53	2.0	1.7	1.5	1.4	1.2	.91
18	2.5	2.1	2.5	2.2	1.7	.53	2.0	1.7	1.5	1.3	1.1	.91
19	2.4	2.2	2.3	2.1	1.8	.53	2.0	1.6	1.4	1.3	1.2	.97
20	2.4	2.2	2.4	2.2	1.8	.47	2.0	1.6	1.4	1.2	1.1	.97
21	2.3	2.1	2.4	1.7	1.8	.47	2.0	1.7	1.3	1.2	1.1	.97
22	2.3	2.2	2.4	1.7	1.9	.47	2.0	1.6	1.4	1.2	1.1	.97
23	2.3	2.2	2.5	2.1	1.8	.47	2.0	1.7	1.5	1.3	1.1	.96
24	2.3	2.2	2.6	2.3	1.9	.47	1.9	1.6	1.5	1.3	1.1	.96
25	2.3	2.1	2.7	2.3	1.8	.53	1.9	1.6	1.6	1.3	1.1	.89
26	2.3	2.2	2.6	2.0	1.8	.81	1.9	1.6	1.5	1.3	1.1	.89
27	2.3	2.1	2.7	1.8	1.9	.80	1.9	1.5	1.4	1.3	1.1	.89
28	2.2	2.2	2.7	1.9	1.8	.90	1.9	1.5	1.4	1.2	1.2	.88
29	2.2	2.1	2.5	2.0	---	.90	1.9	1.5	1.6	1.2	1.1	.88
30	2.1	2.1	2.4	2.2	---	1.0	1.8	1.6	1.5	1.2	1.2	.94
31	2.1	---	2.4	2.4	---	1.1	---	1.7	---	1.2	1.2	---
TOTAL	73.4	64.5	72.1	68.2	53.5	20.78	54.3	53.7	45.8	43.0	36.1	29.89
MEAN	2.37	2.15	2.33	2.20	1.91	.67	1.81	1.73	1.53	1.39	1.16	1.00
MAX	2.6	2.2	2.7	2.5	2.5	1.8	2.0	2.0	1.7	1.7	1.3	1.2
MIN	2.1	2.0	2.1	1.7	1.6	.35	1.2	1.5	1.3	1.2	1.1	.88
AC-FT	146	128	143	135	106	41	108	107	91	85	72	59

CAL YR 1980 TOTAL 729.06 MEAN 1.99 MAX 2.7 MIN .96 AC-FT 1450
WTR YR 1981 TOTAL 615.27 MEAN 1.69 MAX 2.7 MIN .35 AC-FT 1220

09306022 STEWART GULCH ABOVE WEST FORK, NEAR RIO BLANCO, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1974 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: October 1974 to current year.
WATER TEMPERATURE: October 1974 to current year.
DISSOLVED OXYGEN: October 1974 to September 1981 (discontinued).
pH: October 1974 to September 1981 (discontinued).
SUSPENDED-SEDIMENT DISCHARGE: October 1974 to current year.

INSTRUMENTATION.--Water-quality monitor since October 1974. Pumping sediment sampler since October 1974.

REMARKS.--Dissolved-oxygen and pH records for the 1979 water year are published in this report. Daily maximum and minimum specific-conductance data available in district office.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 2,200 micromhos Nov. 10, 1975; minimum, 635 micromhos Sept. 3, 1977.
WATER TEMPERATURES: Maximum, 20.5°C July 3, 1976, June 3, 1977; minimum, 0.5°C Jan. 9, Dec. 17, 1977, Mar. 3, Dec. 2, 3, 1978, Jan. 29, 1979.
DISSOLVED OXYGEN: Maximum, 16.6 mg/L Jan. 13, 1976; minimum, 3.6 mg/L Aug. 19, 20, 1977.
pH: Maximum, 8.9 units Dec. 9, 11, 1979; minimum, 7.6 units Oct. 7, 1975.
SEDIMENT CONCENTRATIONS: Maximum daily, 1,350 mg/L June 8, 1975; minimum daily, no flow Aug. 7-9, 1975.
SEDIMENT LOADS: Maximum daily, 10 tons (9.1 t) estimated June 8, 1975; minimum daily, no flow Aug. 7-9, 1975.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 1390 micromhos Sept. 6; minimum, 1190 micromhos Sept. 24.
WATER TEMPERATURES: Maximum, 19.5°C June 6; minimum, 2.5°C Apr. 3.
DISSOLVED OXYGEN: Maximum, 11.4 mg/L Sept. 23; minimum 7.1 mg/L July 7.
pH: Maximum, 8.7 units June 29; minimum, 8.0 units several days in Aug. and Sept.
SEDIMENT CONCENTRATIONS: Maximum daily, 450 mg/L Jan. 6; minimum daily, 1 mg/L Sept. 28.
SEDIMENT LOADS: Maximum daily, 2.5 tons (2.3 t) Jan. 6, 24, 31, Feb. 1; minimum daily, 0.00 ton (0.00 t) several days in Sept.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	BICAR-BONATE FET-FLD (MG/L AS HCO3)	ALKA-LINITY LAB (MG/L AS CACO3)	OXYGEN DEMAND, CHEM-ICAL (HIGH LEVEL) (MG/L)	COLI-FORM, TOTAL, IMMED. (COLS. PER 100 ML)
OCT											
14...	1135	2.5	1360	1340	7.8	10.0	9.8	510	420	--	--
NOV											
04...	1115	2.4	1360	1360	7.9	10.0	9.8	510	420	--	--
DEC											
10...	1100	2.2	1300	1350	8.2	6.3	10.5	480	390	8	--
JAN											
13...	1030	2.0	1340	1350	7.8	6.0	10.1	500	410	--	--
FEB											
11...	1115	1.8	1280	1280	8.3	6.0	10.5	290	240	--	--
MAR											
03...	1025	1.5	1380	1320	8.4	7.5	10.0	500	410	--	--
APR											
15...	1110	2.0	1310	1330	8.2	11.5	9.0	480	390	57	K48
MAY											
12...	1015	1.7	1350	1350	8.1	11.0	8.8	480	390	--	--
JUN											
09...	1020	1.6	1340	1310	8.2	15.0	7.7	510	420	--	--
JUL											
07...	1050	1.4	1400	1340	8.2	14.0	7.9	480	390	21	K61
AUG											
04...	1030	1.2	--	--	--	--	--	500	--	--	--
04...	1050	1.4	1320	1340	8.2	12.5	9.4	--	410	--	--
SEP											
15...	1045	1.0	1330	1350	8.3	10.0	10.4	500	410	--	--

K BASED ON NON-IDEAL COLONY COUNT.

09306022 STEWART GULCH ABOVE WEST FORK, NEAR RIO BLANCO, CO--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD-NESS (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	SULFIDE TOTAL (MG/L AS S)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)
OCT											
14...	--	--	510	81	74	130	2.5	1.9	--	340	6.4
NOV											
04...	--	--	500	83	71	130	2.5	1.3	--	330	5.8
DEC											
10...	<4	120	500	87	69	120	2.3	1.9	.2	330	5.8
JAN											
13...	--	--	520	85	74	130	2.5	1.0	--	360	5.9
FEB											
11...	--	--	510	88	71	100	1.9	1.1	--	440	5.8
MAR											
03...	--	--	520	88	72	130	2.5	1.1	--	370	6.0
APR											
15...	K8	K55	520	88	72	130	2.5	1.3	1.0	350	5.8
MAY											
12...	--	--	530	92	72	120	2.3	1.1	--	350	5.8
JUN											
09...	--	--	510	91	69	120	2.3	1.2	--	360	5.9
JUL											
07...	110	280	530	89	73	130	2.5	1.1	.7	390	6.1
AUG											
04...	--	--	--	--	--	--	--	--	--	--	--
04...	--	--	520	90	71	120	2.6	1.2	--	350	5.8
SEP											
15...	--	--	510	87	71	120	2.6	1.3	--	340	12

DATE	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	BROMIDE DIS-SOLVED (MG/L AS BR)	IODIDE, DIS-SOLVED (MG/L AS I)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN DIS-SOLVED (MG/L AS N)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N)
OCT											
14...	.2	--	--	16	904	1.2	6.1	.80	.040	1.5	.64
NOV											
04...	.3	--	--	16	893	1.2	5.8	.83	.100	1.3	.34
DEC											
10...	.5	.00	--	16	874	1.2	5.2	.90	.000	1.3	.38
JAN											
13...	.4	--	--	16	923	1.3	5.0	.92	.040	1.8	.87
FEB											
11...	.2	--	--	16	869	1.2	4.2	.88	.050	1.6	.64
MAR											
03...	.2	--	--	16	934	1.3	3.8	1.0	.050	1.6	.52
APR											
15...	.3	.10	--	16	907	1.2	4.9	.82	.060	1.3	.40
MAY											
12...	.2	--	--	16	898	1.2	4.1	.91	.090	1.5	.45
JUN											
09...	.2	--	--	16	918	1.3	4.0	.79	.080	1.5	.63
JUL											
07...	.2	.20	.050	17	950	1.3	3.6	.82	.110	1.3	.39
AUG											
04...	--	--	--	--	--	--	--	--	--	--	--
04...	.5	--	--	16	901	1.2	3.4	.04	.140	1.0	.86
SEP											
15...	.5	--	--	16	897	1.2	2.4	.58	.090	1.2	.57

K BASED ON NON-IDEAL COLONY COUNT.

09306022 STEWART GULCH ABOVE WEST FORK, NEAR RIO BLANCO, CO--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	ARSENIC DIS-SOLVED (UG/L AS AS)	BORON, DIS-SOLVED (UG/L AS B)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C)	CARBON, ORGANIC SUS-PENDED TOTAL (MG/L AS C)	PHENOLS (UG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)
OCT 14...	.68	.040	2	80	<10	4	12	.2	0	--
NOV 04...	.44	.060	3	100	<10	4	4.7	.5	2	--
DEC 10...	.38	.040	1	90	<10	10	22	.5	0	--
JAN 13...	.91	.030	2	80	60	20	18	1.2	0	--
FEB 11...	.69	.050	3	70	10	10	3.9	.6	0	--
MAR 03...	.57	.070	1	70	<10	10	18	1.4	0	--
APR 15...	.46	.050	0	80	10	10	9.6	.4	1	.00
MAY 12...	.54	.090	1	80	20	20	20	1.0	8	--
JUN 09...	.71	.060	1	80	<10	10	1.9	.5	4	--
JUL 07...	.50	.030	1	270	10	5	2.0	.2	0	--
AUG 04...	--	--	--	--	--	--	--	--	--	--
04...	1.0	.010	2	70	<10	4	1.6	.1	1	--
SEP 15...	.66	<.010	1	70	<10	2	1.8	.2	1	--

DATE	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	BARIUM, DIS-SOLVED (UG/L AS BA)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COPPER, DIS-SOLVED (UG/L AS CU)	LEAD, DIS-SOLVED (UG/L AS PB)	LITHIUM DIS-SOLVED (UG/L AS LI)	MERCURY DIS-SOLVED (UG/L AS HG)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	STRON-TIUM, DIS-SOLVED (UG/L AS SR)	ZINC, DIS-SOLVED (UG/L AS ZN)
DEC 10...	10	50	<1	0	0	0	10	.0	<10	0	2800	<3
APR 15...	10	80	<1	10	1	3	10	.0	<10	1	2900	10
JUL 07...	0	100	<1	10	2	3	20	.0	<10	1	2800	6

DATE	GROSS ALPHA, DIS-SOLVED (PCI/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (PCI/L AS U-NAT)	GROSS ALPHA, DIS-SOLVED (UG/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT)	GROSS BETA, DIS-SOLVED (PCI/L AS CS-137)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137)	GROSS BETA, DIS-SOLVED (PCI/L AS SR/YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/YT-90)	RADIUM 226, DIS-SOLVED, RADON METHOD (PCI/L)	URANIUM NATURAL DIS-SOLVED (UG/L AS U)	CYANIDE TOTAL (MG/L AS CN)
DEC 10...	<9.5	.7	<14	1.1	<6.5	1.0	<6.3	.9	.10	3.1	.00
APR 15...	13	.8	<19	1.2	<9.0	1.4	<8.7	1.3	.08	2.5	.00
JUL 07...	16	.3	<23	<.4	<10	<.4	<9.6	<.4	.07	2.4	.00

09306022 STEWART GULCH ABOVE WEST FORK, NEAR RIO BLANCO, CO--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	1300	1330	1330	1320	1310	1350	1320	1370	1370	1370
2	---	---	1300	1330	1330	1320	1320	1340	1320	1370	1370	1370
3	---	---	1300	---	1330	1330	1300	1330	1310	1370	1370	1370
4	---	---	1300	---	1330	1320	1310	1340	1320	1370	1370	1370
5	---	---	---	---	1330	1330	1310	1340	1320	1370	1370	1360
6	1270	---	---	---	1330	1310	1310	1330	1320	1370	1370	1380
7	1280	1300	---	---	1330	1320	---	1340	1320	1370	1370	1370
8	1280	1300	---	---	1320	1320	---	1340	1320	1370	1370	1370
9	1280	1300	---	---	1320	1320	1310	1340	1320	1370	1370	1370
10	1280	1300	---	---	1320	1320	1310	1340	1320	1370	1370	1370
11	1280	1300	1300	---	---	1320	1310	1340	1320	1370	1370	1370
12	1290	1300	1300	---	---	1320	1310	1340	1320	1360	1370	1370
13	1290	1300	1300	1330	---	1320	1310	1340	1310	1370	1370	1370
14	1280	1300	1300	1330	---	1320	1310	1340	1310	1370	1370	1370
15	1280	1300	1300	1330	---	1320	1310	1340	1310	1370	1370	1370
16	1280	1300	1300	1330	---	1320	1310	1330	1310	1370	1370	1370
17	1290	1300	1300	1330	---	1310	1310	1330	1310	1360	1370	1370
18	---	1300	1300	1330	---	1320	1310	1340	1310	1370	1370	1370
19	---	1300	1300	1330	---	1320	1310	1340	1300	1370	1370	1370
20	---	1300	1300	1330	---	1320	1310	1330	1310	1370	1370	1370
21	---	1300	1300	1330	---	1310	1310	1330	1300	1370	1370	1370
22	---	1300	1300	1330	---	1310	1310	1330	1300	1370	1370	1370
23	---	1300	1300	1330	---	1310	1310	1330	1300	1370	1370	1370
24	1300	1300	1300	1330	---	1310	1310	1330	1300	1370	1360	1350
25	1300	1300	1300	1330	1320	1310	1310	1330	1300	1370	1370	1370
26	1300	1300	1300	1330	1320	1310	1310	1330	1300	1370	1370	1370
27	---	1310	1300	1330	1320	1310	1310	1330	1300	1370	1360	1370
28	---	1300	1300	1330	1320	1310	1310	1320	1300	1370	1370	1370
29	---	1300	1300	1330	---	1310	1310	1330	1340	1370	1370	1370
30	---	1300	1300	1320	---	1310	1330	1320	1370	1370	1360	1370
31	---	---	1310	1320	---	1310	---	1320	---	1370	1370	---

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	---	---	---	---	7.5	4.5	8.5	5.0	7.0	4.0	11.0	5.5
2	---	---	---	---	8.0	5.0	8.5	5.0	8.0	3.5	10.0	5.5
3	---	---	---	---	8.0	6.0	---	---	8.5	3.5	9.0	5.5
4	---	---	---	---	9.0	6.0	---	---	9.0	4.0	10.5	5.5
5	---	---	---	---	---	---	---	---	8.5	4.0	11.5	5.0
6	12.0	7.5	---	---	---	---	---	---	7.5	4.5	7.5	3.5
7	12.5	6.0	10.5	6.0	---	---	---	---	8.5	4.0	9.5	5.0
8	12.0	6.0	9.5	5.5	---	---	---	---	8.5	4.5	11.0	4.5
9	12.0	6.0	10.5	5.0	---	---	---	---	8.0	5.5	12.5	4.0
10	11.5	5.5	10.5	5.0	---	---	---	---	7.0	3.0	12.0	5.0
11	12.0	5.5	10.0	5.0	8.0	5.0	---	---	---	---	9.5	4.5
12	10.0	6.0	10.0	6.5	8.5	4.5	---	---	---	---	10.0	5.5
13	12.0	8.0	7.0	5.5	8.5	4.5	8.0	4.0	---	---	11.0	4.5
14	10.5	7.0	7.5	4.0	8.5	4.5	8.0	4.0	---	---	12.0	4.5
15	9.0	6.5	8.0	3.5	9.0	5.0	8.0	5.0	---	---	13.5	4.5
16	9.0	6.0	7.5	3.5	9.5	5.5	8.0	4.5	---	---	12.0	4.5
17	8.5	6.5	8.0	3.0	9.5	5.0	8.5	5.0	---	---	9.5	5.0
18	---	---	8.0	3.0	9.5	5.5	8.5	4.5	---	---	12.5	4.5
19	---	---	8.5	3.5	8.5	5.5	8.5	4.5	---	---	11.5	5.0
20	---	---	8.0	4.0	9.0	5.0	9.0	4.5	---	---	10.0	5.5
21	---	---	8.5	3.5	9.0	5.5	9.0	4.5	---	---	9.0	4.5
22	---	---	7.5	4.0	9.0	6.5	9.0	4.5	---	---	11.0	4.5
23	---	---	8.5	4.5	8.0	5.0	9.0	4.5	---	---	12.5	5.0
24	10.5	4.0	6.5	5.0	8.5	5.0	8.0	5.0	---	---	10.5	5.0
25	11.0	5.5	8.0	4.0	9.0	6.0	8.5	4.5	10.5	5.5	14.0	4.5
26	10.0	5.5	7.0	3.5	9.5	5.5	8.0	4.5	9.0	5.5	13.5	5.5
27	---	---	7.0	3.0	9.5	6.0	8.0	5.0	11.5	5.5	12.0	4.5
28	---	---	8.5	4.5	9.0	6.0	8.0	6.0	11.0	5.0	8.0	4.5
29	---	---	8.0	4.5	9.0	5.0	9.0	6.0	---	---	14.5	4.5
30	---	---	8.0	5.5	9.0	5.0	6.5	5.0	---	---	7.5	3.5
31	---	---	---	---	8.5	5.0	7.0	4.5	---	---	13.0	3.0
MONTH	12.5	4.0	10.5	3.0	9.5	4.5	9.0	4.0	11.5	3.0	14.5	3.0

09306022 STEWART GULCH ABOVE WEST FORK, NEAR RIO BLANCO, CO--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	13.5	4.5	16.0	6.5	18.5	7.0	---	---	18.5	9.5	15.5	8.0
2	15.0	5.0	15.5	7.5	17.5	7.0	---	---	17.0	8.0	14.5	8.5
3	8.5	2.5	13.0	6.0	17.0	8.5	---	---	18.5	8.5	13.0	8.5
4	10.5	3.5	16.5	6.0	18.5	7.5	---	---	18.0	8.5	14.5	7.5
5	13.0	3.0	15.0	6.0	19.0	7.5	---	---	18.0	7.5	11.5	9.0
6	14.5	4.5	15.5	7.5	19.5	7.5	---	---	17.5	7.5	12.0	9.0
7	---	---	14.0	5.5	18.5	8.5	---	---	17.0	7.5	14.5	8.5
8	---	---	12.0	6.0	---	---	---	---	17.0	8.0	15.0	7.5
9	15.0	6.0	14.5	6.5	---	---	---	---	17.0	8.5	13.5	9.0
10	15.0	5.5	15.0	5.5	---	---	---	---	11.5	8.5	11.5	9.0
11	15.0	5.5	13.5	6.0	---	---	---	---	12.0	8.5	14.0	8.5
12	14.0	5.5	14.5	6.0	---	---	---	---	14.5	8.5	14.0	7.5
13	13.5	6.0	16.0	5.5	---	---	---	---	15.0	8.5	14.0	8.0
14	14.5	5.0	16.5	6.0	---	---	---	---	13.0	8.5	14.0	8.0
15	13.5	7.0	13.0	6.5	---	---	---	---	15.0	8.5	13.5	7.5
16	14.0	6.0	13.0	7.5	---	---	---	---	16.5	8.5	13.5	7.0
17	15.0	6.0	11.5	7.5	---	---	---	---	15.5	8.0	13.5	6.5
18	14.0	6.0	17.5	7.5	---	---	---	---	16.0	7.5	13.5	6.5
19	15.0	6.5	12.5	7.0	---	---	---	---	13.5	7.5	13.0	7.0
20	14.0	6.0	11.5	6.5	---	---	---	---	14.5	8.0	13.0	7.5
21	14.0	5.5	12.0	6.0	---	---	---	---	12.0	7.5	13.5	8.0
22	14.0	6.0	12.0	7.0	---	---	---	---	15.0	8.0	13.5	8.0
23	16.0	5.5	14.5	7.5	---	---	---	---	14.0	8.0	12.5	7.5
24	16.5	6.0	14.0	6.0	---	---	---	---	12.5	8.0	11.0	8.0
25	16.5	6.0	13.5	7.0	---	---	---	---	15.5	8.0	13.0	7.5
26	15.5	6.0	14.0	7.5	---	---	---	---	16.5	8.0	12.5	6.5
27	15.0	5.5	16.0	8.5	---	---	---	---	15.5	9.0	13.0	6.5
28	16.0	5.5	17.0	8.0	---	---	---	---	15.5	8.0	13.0	7.0
29	16.5	5.5	16.0	8.0	---	---	---	---	15.0	9.0	11.5	7.5
30	16.0	5.5	18.5	7.0	---	---	16.5	9.5	15.5	9.0	12.0	8.0
31	---	---	17.0	8.0	---	---	17.5	8.0	16.0	8.5	---	---
MONTH	16.5	2.5	18.5	5.5	19.5	7.0	17.5	8.0	18.5	7.5	15.5	6.5

PH (STANDARD UNITS), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	---	---	---	---	8.2	8.1	8.3	8.3	8.4	8.3	8.2	8.2
2	---	---	---	---	8.1	8.1	8.3	8.3	8.4	8.4	8.4	8.2
3	---	---	---	---	8.1	8.1	---	---	8.4	8.4	8.4	8.3
4	---	---	---	---	8.2	8.1	---	---	8.4	8.4	8.4	8.4
5	---	---	---	---	---	---	---	---	8.4	8.4	8.4	8.4
6	8.3	8.2	---	---	---	---	---	---	8.4	8.4	8.5	8.4
7	8.3	8.2	8.3	8.1	---	---	---	---	8.4	8.4	8.4	8.4
8	8.3	8.2	8.2	8.1	---	---	---	---	8.4	8.4	8.4	8.4
9	8.3	8.2	8.2	8.1	---	---	---	---	8.4	8.3	8.4	8.4
10	8.3	8.2	8.2	8.1	---	---	---	---	8.4	8.4	8.4	8.4
11	8.3	8.2	8.2	8.1	8.3	8.2	---	---	---	---	8.4	8.4
12	8.2	8.1	8.2	8.1	8.3	8.2	---	---	---	---	8.4	8.4
13	8.3	8.1	8.2	8.1	8.3	8.2	8.3	8.3	---	---	8.4	8.4
14	8.2	8.1	8.2	8.1	8.3	8.2	8.4	8.3	---	---	8.4	8.3
15	8.2	8.1	8.2	8.1	8.3	8.3	8.4	8.3	---	---	8.4	8.3
16	8.2	8.1	8.2	8.1	8.3	8.3	8.4	8.3	---	---	8.4	8.3
17	8.2	8.1	8.2	8.1	8.3	8.3	8.4	8.4	---	---	8.4	8.4
18	---	---	8.2	8.1	8.4	8.3	8.4	8.4	---	---	8.4	8.3
19	---	---	8.2	8.1	8.3	8.3	8.4	8.4	---	---	8.4	8.3
20	---	---	8.2	8.1	8.3	8.3	8.4	8.4	---	---	8.4	8.4
21	---	---	8.2	8.1	8.3	8.2	8.4	8.4	---	---	8.4	8.3
22	---	---	8.2	8.1	8.3	8.2	8.4	8.4	---	---	8.4	8.3
23	---	---	8.2	8.1	8.3	8.2	8.4	8.4	---	---	8.4	8.3
24	8.4	8.3	8.2	8.1	8.3	8.2	8.4	8.4	---	---	8.4	8.3
25	8.3	8.2	8.2	8.1	8.2	8.2	8.4	8.4	8.3	8.1	8.4	8.3
26	8.3	8.2	8.2	8.1	8.2	8.2	8.4	8.4	8.3	8.1	8.4	8.3
27	---	---	8.1	8.1	8.2	8.2	8.4	8.3	8.2	8.1	8.4	8.3
28	---	---	8.1	8.1	8.2	8.2	8.4	8.3	8.2	8.2	8.4	8.3
29	---	---	8.1	8.1	8.2	8.2	8.4	8.3	---	---	8.4	8.3
30	---	---	8.1	8.1	8.3	8.2	8.4	8.3	---	---	8.4	8.3
31	---	---	---	---	8.4	8.1	8.4	8.3	---	---	8.4	8.2
MONTH	8.4	8.1	8.3	8.1	8.4	8.1	8.4	8.3	8.4	8.1	8.5	8.2

09306022 STEWART GULCH ABOVE WEST FORK, NEAR RIO BLANCO, CO--Continued

PH (STANDARD UNITS), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMRER	
1	8.4	8.2	8.5	8.2	8.4	8.2	8.6	8.3	8.6	8.4	8.3	8.1
2	8.4	8.3	8.5	8.2	8.3	8.1	8.6	8.3	8.6	8.3	8.4	8.1
3	8.4	8.3	8.4	8.2	8.3	8.1	8.6	8.3	8.6	8.2	8.3	8.0
4	8.4	8.2	8.5	8.2	8.3	8.1	8.6	8.2	---	---	8.3	8.1
5	8.4	8.2	8.4	8.2	8.3	8.1	8.5	8.3	---	---	8.3	8.0
6	8.4	8.3	8.4	8.2	8.3	8.1	8.6	8.3	---	---	8.3	8.1
7	---	---	8.4	8.1	8.2	8.1	8.6	8.3	---	---	8.3	8.1
8	---	---	8.4	8.3	8.3	8.1	8.6	8.1	---	---	8.3	8.1
9	8.5	8.3	8.4	8.2	8.5	8.1	8.6	8.2	---	---	8.3	8.1
10	8.4	8.2	8.4	8.2	8.5	8.2	8.5	8.3	---	---	8.3	8.1
11	8.4	8.2	8.4	8.2	8.6	8.2	8.6	8.2	---	---	8.3	8.1
12	8.4	8.2	8.4	8.2	8.5	8.3	---	---	---	---	8.3	8.1
13	8.4	8.2	8.4	8.2	8.5	8.2	8.5	8.3	8.4	8.2	8.3	8.1
14	8.4	8.2	8.4	8.2	8.5	8.2	8.6	8.2	8.4	8.2	8.3	8.1
15	8.4	8.3	8.4	8.2	8.5	8.3	8.6	8.2	8.3	8.1	8.3	8.1
16	8.4	8.2	8.4	8.2	8.5	8.3	8.5	8.2	8.3	8.1	8.3	8.1
17	8.4	8.3	8.4	8.2	8.5	8.3	8.5	8.4	8.3	8.1	8.3	8.1
18	8.4	8.2	8.4	8.1	8.5	8.2	8.6	8.4	8.3	8.1	8.3	8.1
19	8.4	8.2	8.4	8.2	8.6	8.2	8.6	8.3	8.2	8.1	8.3	8.1
20	8.4	8.2	8.4	8.3	8.6	8.2	8.6	8.2	8.2	8.1	8.3	8.1
21	8.4	8.2	8.4	8.3	8.6	8.2	8.6	8.3	8.3	8.1	8.3	8.1
22	8.4	8.3	8.4	8.2	8.6	8.2	8.6	8.3	8.3	8.1	8.3	8.1
23	8.4	8.2	8.4	8.2	8.6	8.2	---	---	8.2	8.0	8.3	8.1
24	8.4	8.2	8.4	8.2	8.6	8.2	---	---	8.2	8.0	8.3	8.0
25	8.4	8.2	8.4	8.2	8.6	8.1	---	---	8.3	8.0	8.3	8.1
26	8.4	8.2	8.4	8.2	8.6	8.3	---	---	8.3	8.1	8.3	8.1
27	8.4	8.2	8.4	8.2	8.6	8.2	---	---	8.3	8.0	8.3	8.1
28	8.4	8.2	8.4	8.2	8.6	8.3	8.6	8.5	8.3	8.0	8.3	8.1
29	8.4	8.2	8.4	8.2	8.7	8.3	8.6	8.4	8.3	8.0	8.3	8.1
30	8.4	8.2	8.4	8.2	8.6	8.3	8.6	8.4	8.3	8.0	8.3	8.1
31	---	---	8.4	8.2	---	---	8.6	8.4	8.3	8.0	---	---
MONTH	8.5	8.2	8.5	8.1	8.7	8.1	8.6	8.1	8.6	8.0	8.4	8.0

OXYGEN, DISSOLVED (DO), MG/L, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	---	---	---	---	8.9	8.0	9.2	8.6	10.7	10.0	9.8	8.8
2	---	---	---	---	9.0	8.0	9.1	8.4	10.9	10.0	9.8	9.2
3	---	---	---	---	8.8	8.0	---	---	10.6	9.8	9.9	9.0
4	---	---	---	---	8.9	7.8	---	---	10.4	9.8	9.8	8.7
5	---	---	---	---	---	---	---	---	10.5	9.7	9.9	8.8
6	9.8	7.8	---	---	---	---	---	---	10.2	9.6	9.9	9.3
7	9.6	7.7	9.9	8.6	---	---	---	---	10.3	9.6	9.6	9.2
8	9.4	7.6	10.1	8.5	---	---	---	---	10.1	9.4	9.8	8.9
9	9.4	7.6	10.0	8.4	---	---	---	---	10.2	9.3	9.8	8.7
10	9.5	7.6	9.8	8.3	---	---	---	---	10.8	9.6	9.7	8.8
11	9.4	7.5	9.9	8.2	9.3	8.8	---	---	---	---	9.6	9.0
12	9.2	7.1	9.6	8.1	9.7	8.8	---	---	---	---	9.5	9.0
13	9.1	7.5	9.4	8.1	9.7	9.0	---	---	---	---	9.7	8.9
14	9.1	7.2	9.8	8.6	9.8	8.9	---	---	---	---	9.7	8.9
15	9.2	7.3	9.8	8.7	9.8	8.9	---	---	---	---	9.8	8.9
16	9.5	7.8	9.9	8.6	10.4	9.3	---	---	---	---	9.9	8.8
17	9.2	7.9	9.8	8.7	10.0	9.2	---	---	---	---	10.2	9.0
18	---	---	9.7	8.6	9.9	9.1	---	---	---	---	10.1	9.1
19	---	---	9.6	8.5	9.9	9.1	---	---	---	---	10.0	8.7
20	---	---	9.5	8.5	9.9	9.1	---	---	---	---	10.0	8.8
21	---	---	9.5	8.4	9.8	9.2	---	---	---	---	10.5	8.8
22	---	---	9.2	8.1	9.8	9.1	---	---	---	---	10.6	9.0
23	---	---	9.3	8.1	9.8	9.2	---	---	---	---	10.6	8.9
24	9.2	7.9	9.0	8.1	9.9	9.2	---	---	---	---	10.9	8.8
25	10.0	8.3	9.5	8.4	9.7	9.1	---	---	9.3	8.7	10.5	8.7
26	9.9	8.3	9.4	8.4	9.7	9.2	---	---	9.3	8.9	10.2	8.4
27	---	---	9.3	8.2	9.7	9.1	---	---	9.6	8.8	10.3	8.5
28	---	---	9.1	8.1	9.7	9.2	10.8	10.1	9.8	8.9	10.3	8.7
29	---	---	9.1	8.0	9.8	9.3	10.6	10.0	---	---	10.1	8.6
30	---	---	8.8	7.8	9.7	9.2	10.6	10.0	---	---	10.3	8.7
31	---	---	---	---	9.7	8.6	10.6	10.0	---	---	10.2	8.8
MONTH	10.0	7.1	10.1	7.8	10.4	7.8	10.8	8.4	10.9	8.7	10.9	8.4

09306022 STEWART GULCH ABOVE WEST FORK, NEAR RIO BLANCO, CO--Continued

OXYGEN, DISSOLVED (DO), MG/L, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	10.6	9.0	9.7	8.5	9.5	8.3	9.6	8.0	10.1	8.6	10.5	8.3
2	10.3	8.6	9.4	8.5	9.4	8.2	9.2	7.9	9.8	8.6	10.7	8.5
3	11.0	8.8	9.5	8.7	9.3	8.5	8.8	7.8	9.8	8.4	11.1	8.7
4	11.0	9.2	9.7	8.3	9.6	8.5	8.7	7.4	9.6	8.4	10.9	8.6
5	10.5	9.1	9.6	8.3	9.7	8.4	8.5	7.3	9.7	8.4	10.9	8.2
6	10.0	8.8	9.2	8.2	9.7	8.5	8.3	7.2	9.7	8.3	11.1	8.6
7	---	---	9.5	8.3	9.7	8.7	8.2	7.1	9.6	8.2	11.3	8.6
8	---	---	9.3	8.5	9.8	8.7	8.2	7.2	9.5	8.0	10.9	8.6
9	9.3	8.6	9.4	8.3	9.2	8.3	8.2	7.3	9.3	7.9	10.7	8.4
10	9.5	8.5	9.5	8.0	9.6	8.2	8.2	7.4	9.5	8.0	11.1	8.5
11	9.5	8.5	9.3	8.2	9.7	8.5	8.2	7.5	9.3	7.8	11.0	8.6
12	9.5	8.7	9.3	8.3	9.7	8.7	8.2	7.5	9.2	7.7	10.7	8.5
13	9.3	8.6	9.5	8.1	10.0	8.8	8.4	7.6	9.2	7.7	10.7	8.4
14	9.5	8.3	9.4	7.9	10.7	9.2	8.7	7.6	9.5	7.9	10.7	8.4
15	9.2	8.4	9.2	8.3	10.6	9.0	8.6	7.7	9.8	8.2	10.7	8.4
16	9.3	8.4	9.0	8.3	10.3	8.7	8.5	7.5	9.8	8.3	10.8	8.3
17	9.2	8.2	9.1	8.6	10.5	8.6	8.5	7.8	10.0	8.5	10.8	8.7
18	9.1	8.1	9.1	7.9	10.9	8.5	8.8	7.9	10.4	8.9	11.3	8.8
19	8.9	8.1	9.7	8.9	10.6	8.4	9.0	8.3	10.6	8.9	11.3	8.6
20	8.9	8.2	9.9	9.3	10.7	8.3	9.3	8.5	10.8	8.9	11.3	8.5
21	9.0	7.9	10.1	9.3	11.1	8.2	9.5	8.7	10.9	8.9	11.3	8.5
22	8.9	8.0	9.8	9.2	11.0	8.3	9.7	9.0	10.7	8.8	11.3	8.5
23	9.6	8.6	9.7	8.9	11.1	8.3	10.0	8.7	10.6	8.8	11.4	8.5
24	9.9	8.7	9.9	8.9	10.2	8.6	9.9	8.9	10.7	8.7	11.2	8.3
25	9.8	8.7	9.8	9.0	10.1	8.7	9.9	8.7	10.5	8.6	11.2	8.4
26	9.8	8.7	9.6	8.9	10.3	8.3	9.8	8.9	10.5	8.7	11.0	8.7
27	9.9	9.0	9.6	8.7	10.3	8.4	10.0	8.9	10.5	8.5	11.0	8.6
28	10.0	8.7	9.8	8.5	10.4	8.2	9.9	8.8	10.4	8.7	11.1	8.5
29	9.9	8.6	9.7	8.7	10.5	8.1	9.8	8.7	10.5	8.5	11.1	8.4
30	9.8	8.0	9.7	8.6	9.7	8.0	9.9	8.7	10.5	8.4	11.3	8.7
31	---	---	9.6	8.6	---	---	9.9	8.7	10.5	8.4	---	---
MONTH	11.0	7.9	10.1	7.9	11.1	8.0	10.0	7.1	10.9	7.7	11.4	8.2

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
		OCTOBER			NOVEMBER			DECEMBER	
1	2.5	13	.09	2.0	---	.15	2.1	---	.30
2	2.6	15	.11	2.0	---	.15	2.1	---	.30
3	2.6	13	.09	2.2	---	.15	2.2	---	.40
4	2.6	30	.21	2.1	29	.16	2.1	---	.35
5	2.6	13	.09	2.2	45	.27	2.2	---	.35
6	2.4	21	.14	2.2	38	.23	2.1	---	.40
7	2.4	23	.15	2.2	50	.30	2.1	---	.40
8	2.3	24	.15	2.1	74	.42	2.3	---	.45
9	2.3	21	.13	2.1	68	.39	2.3	---	.45
10	2.2	19	.11	2.2	78	.46	2.2	---	.40
11	2.3	24	.15	2.2	82	.49	2.1	---	.40
12	2.4	15	.10	2.1	100	.57	2.1	---	.40
13	2.4	12	.08	2.2	164	.97	2.1	---	.40
14	2.5	28	.19	2.2	133	.79	2.2	---	.40
15	2.4	38	.25	2.2	---	.80	2.2	90	.53
16	2.4	32	.21	2.2	---	.65	2.2	108	.64
17	2.5	14	.09	2.1	---	.60	2.4	---	1.0
18	2.5	20	.14	2.1	---	.60	2.5	---	1.0
19	2.4	16	.10	2.2	---	.70	2.3	---	.80
20	2.4	18	.12	2.2	---	.70	2.4	---	1.0
21	2.3	14	.09	2.1	---	.60	2.4	---	1.5
22	2.3	19	.12	2.2	---	.50	2.4	---	1.5
23	2.3	40	.25	2.2	---	.50	2.5	214	1.4
24	2.3	---	.10	2.2	---	.40	2.6	---	1.5
25	2.3	---	.20	2.1	---	.40	2.7	---	1.5
26	2.3	---	.15	2.2	---	.40	2.6	---	1.5
27	2.3	---	.15	2.1	---	.40	2.7	---	1.5
28	2.2	---	.15	2.2	---	.40	2.7	---	1.5
29	2.2	---	.10	2.1	---	.30	2.5	---	1.5
30	2.1	---	.10	2.1	---	.30	2.4	---	1.5
31	2.1	---	.05	---	---	---	2.4	---	1.5
TOTAL	73.4	---	4.16	64.5	---	13.75	72.1	---	26.77

09306022 STEWART GULCH ABOVE WEST FORK, NEAR RIO BLANCO, CO—Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
		JANUARY			FEBRUARY			MARCH	
1	2.4	---	1.5	2.5	---	2.5	1.8	---	.90
2	2.5	---	1.5	2.3	---	2.0	1.8	---	.90
3	2.5	---	1.5	2.2	---	1.5	1.5	185	.75
4	2.5	---	1.5	2.3	---	1.5	.81	---	.50
5	2.5	---	1.5	2.3	---	1.0	.74	---	.40
6	2.2	450	2.5	2.2	---	1.0	.35	---	.15
7	2.4	---	2.0	2.2	---	.95	.35	---	.10
8	2.4	---	2.0	2.1	---	.85	.35	---	.10
9	2.3	---	2.0	1.9	150	.77	.41	---	.10
10	2.3	---	2.0	1.7	---	.65	.41	---	.10
11	2.2	---	2.0	1.7	---	.65	.35	65	.06
12	2.2	315	1.9	1.7	---	.65	.35	---	.05
13	2.2	285	1.7	1.7	---	.65	.35	---	.05
14	2.1	278	1.6	1.7	---	.65	.35	---	.05
15	2.2	262	1.6	1.6	---	.70	.41	---	.05
16	2.2	188	1.1	1.7	---	.75	.47	---	.05
17	2.2	188	1.1	1.7	---	.80	.53	---	.05
18	2.2	172	1.0	1.7	---	.80	.53	---	.05
19	2.1	176	1.0	1.8	---	.90	.53	35	.05
20	2.2	202	1.2	1.8	---	.90	.47	---	.05
21	1.7	258	1.2	1.8	---	.90	.47	---	.05
22	1.7	232	1.1	1.9	---	1.0	.47	---	.05
23	2.1	232	1.3	1.8	---	1.0	.47	---	.05
24	2.3	---	2.5	1.9	---	1.0	.47	---	.05
25	2.3	---	2.0	1.8	220	1.1	.53	55	.08
26	2.0	---	1.0	1.8	---	1.0	.81	---	.15
27	1.8	240	1.2	1.9	---	1.0	.80	---	.20
28	1.9	442	2.3	1.8	---	.90	.90	---	.25
29	2.0	352	1.9	---	---	---	.90	---	.25
30	2.2	188	1.1	---	---	---	1.0	---	.25
31	2.4	---	2.5	---	---	---	1.1	---	.30
TOTAL	68.2	---	50.3	53.5	---	28.07	20.78	---	6.19

DAY	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
		APRIL			MAY			JUNE	
1	1.2	100	.32	1.7	90	.41	1.7	90	.41
2	1.2	---	.30	1.9	---	.50	1.7	80	.37
3	1.3	---	.55	2.0	---	.75	1.7	135	.62
4	1.3	---	.45	1.9	---	.50	1.7	110	.50
5	1.3	---	.45	1.9	---	---	1.7	95	.44
6	1.4	---	.50	2.0	282	1.5	1.7	120	.55
7	1.7	---	.90	1.9	---	---	1.7	95	.44
8	1.9	---	.80	1.9	---	.75	1.6	110	.48
9	1.9	160	.82	2.0	---	.70	1.6	100	.43
10	1.9	140	.72	1.8	---	.50	1.5	95	.38
11	2.0	---	.65	1.8	---	.75	1.5	85	.34
12	2.0	---	.45	1.8	---	---	1.5	50	.20
13	2.0	---	.45	1.8	---	---	1.5	40	.16
14	2.0	---	.30	1.7	---	.50	1.4	30	.11
15	2.0	60	.32	1.7	---	.50	1.4	30	.11
16	2.0	50	.27	1.7	---	.50	1.4	60	.23
17	2.0	60	.32	1.7	---	.50	1.5	45	.18
18	2.0	---	.45	1.7	---	.50	1.5	50	.20
19	2.0	---	.45	1.6	---	---	1.4	35	.13
20	2.0	130	.70	1.6	---	---	1.4	35	.13
21	2.0	---	.55	1.7	---	---	1.3	25	.09
22	2.0	---	.40	1.6	---	---	1.4	37	.14
23	2.0	50	.27	1.7	---	---	1.5	50	.20
24	1.9	70	.36	1.6	---	---	1.5	60	.24
25	1.9	75	.38	1.6	---	---	1.6	45	.19
26	1.9	75	.38	1.6	---	---	1.5	50	.20
27	1.9	70	.36	1.5	---	---	1.4	65	.25
28	1.9	80	.41	1.5	---	---	1.4	25	.09
29	1.9	80	.41	1.5	---	---	1.6	65	.28
30	1.8	90	.44	1.6	---	---	1.5	55	.22
31	---	---	---	1.7	---	---	---	---	---
TOTAL	54.3	---	14.13	53.7	---	8.86	45.8	---	8.31

09306022 STEWART GULCH ABOVE WEST FORK, NEAR RIO BLANCO, CO-Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
		JULY			AUGUST			SEPTEMBER	
1	1.6	80	.35	1.2	70	.23	1.2	10	.03
2	1.7	120	.55	1.2	65	.21	1.0	10	.03
3	1.6	115	.50	1.2	55	.18	1.1	---	.03
4	1.7	105	.48	1.1	40	.12	1.1	---	.03
5	1.5	115	.47	1.1	40	.12	1.1	---	.15
6	1.6	110	.48	1.1	20	.06	1.1	---	.20
7	1.5	105	.43	1.2	20	.06	1.1	---	.05
8	1.4	80	.30	1.2	45	.15	1.1	---	.03
9	1.4	80	.30	1.2	25	.08	1.0	---	.10
10	1.4	90	.34	1.3	50	.18	1.1	---	.20
11	1.4	60	.23	1.2	20	.06	1.1	---	.05
12	1.4	65	.25	1.2	20	.06	1.0	---	.05
13	1.6	55	.24	1.3	15	.05	1.0	---	.05
14	1.5	60	.24	1.2	15	.05	.99	---	.05
15	1.4	50	.19	1.2	15	.05	.99	---	.05
16	1.4	50	.19	1.2	20	.06	.92	---	.05
17	1.4	45	.17	1.2	20	.06	.91	10	.02
18	1.3	55	.19	1.1	30	.09	.91	9	.02
19	1.3	40	.14	1.2	50	.16	.97	5	.01
20	1.2	30	.10	1.1	40	.12	.97	9	.02
21	1.2	40	.13	1.1	45	.13	.97	6	.02
22	1.2	30	.10	1.1	60	.18	.97	8	.02
23	1.3	25	.09	1.1	65	.19	.96	2	.00
24	1.3	15	.05	1.1	25	.07	.96	128	.41
25	1.3	20	.07	1.1	50	.15	.89	13	.03
26	1.3	10	.04	1.1	60	.18	.89	3	.00
27	1.3	20	.07	1.1	15	.04	.89	4	.00
28	1.2	25	.08	1.2	10	.03	.88	1	.00
29	1.2	35	.11	1.1	60	.18	.88	2	.00
30	1.2	85	.28	1.2	10	.03	.94	6	.02
31	1.2	70	.23	1.2	5	.02	---	---	---
TOTAL	43.0	---	7.39	36.1	---	3.35	29.89	---	1.72
YEAR	615.27		173.00						

09306025 WEST FORK STEWART GULCH NEAR RIO BLANCO, CO

LOCATION.--Lat 39°47'01", long 108°11'21", in SW¼SE¼ sec.17, T.3 S., R.96 W., Rio Blanco County, Hydrologic Unit 14050006, on left bank 2.1 mi (3.4 km) upstream from mouth, and 13.5 mi (21.7 km) west of Rio Blanco.

DRAINAGE AREA.--14.2 mi^2 (36.8 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1974 to September 1976, March 1978 to current year.

REVISED RECORDS.--WDR CO 75-2: 1974(M).

GAGE.--Water-stage recorder. Concrete control since Aug. 26, 1974. Altitude of gage is 6,668 ft (2,032 m), from topographic map. Prior to Aug. 26, 1974, at datum 1.50 ft (0.457 m) lower.

REMARKS.--Records excellent except for periods of flow, which are poor. Diversions above gage for irrigation of small hay meadows.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1.5 ft^3/s (0.042 m^3/s) Feb. 19, 1980, gage height, 1.29 ft (0.393 m); maximum gage height, 1.54 ft (0.469 m) Feb. 10, 1976 (backwater from ice); no flow many days each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 0.3 ft^3/s (0.008 m^3/s) at 1200 Aug. 24, gage height, 1.05 ft (0.320 m); no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

JUNE 28	0.01	AUG. 24	0.01	SEPT. 5	0.01

CAL YR 1980	TOTAL 2.14	MEAN 0.006	MAX 0.54	MIN 0.00	AC-FT 4.2
WTR YR 1981	TOTAL 0.03	MEAN 0.00	MAX 0.01	MIN 0.00	AC-FT 0.06

09306025 WEST FORK STEWART GULCH NEAR RIO BLANCO, CO

WATER-QUALITY RECORDS

PERIOD OF RECORD.--May 1974 to September 1976, March 1978 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: May 1974 to September 1976, March 1978 to current year.
WATER TEMPERATURE: May 1974 to Septembet 1976, March 1978 to current year.
SUSPENDED-SEDIMENT DISCHARGE: May 1974 to September 1976.

INSTRUMENTATION.--Water-quality monitor and pumping sediment sampler May 1974 to September 1976. Water-quality monitor since March 1978.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 1,840 micromhos Sept. 24, 25, 1976; minimum, 100 micromhos Feb. 18, 1980.
WATER TEMPERATURES: Minimum, freezing point on many days during winter months.
SEDIMENT CONCENTRATIONS: Maximum daily, 500 mg/L Feb. 11, 1976; no flow many days each year.
SEDIMENT LOADS: Maximum daily, 0.27 ton (0.24 t) estimated Feb. 10, 1976; no flow many days each year.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 1,460 micromhos June 28; minimum, 950 micromhos June 28.
WATER TEMPERATURES: Maximum, 16.5°C June 28; minimum, 16°C June 28.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1									---			
2									---			
3									---			
4									---			
5									---			
6									---			
7									---			
8									---			
9									---			
10									---			
11									---			
12									---			
13									---			
14									---			
15									---			
16									---			
17									---			
18									---			
19									---			
20									---			
21									---			
22									---			
23									---			
24									---			
25									---			
26									---			
27									---			
28									1210			
29									---			
30									---			
31									---			

09306025 WEST FORK STEWART GULCH NEAR RIO BLANCO, CO--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1												
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												
21												
22												
23												
24												
25												
26												
27												
28												
29												
30												
31												

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1					---	---						
2					---	---						
3					---	---						
4					---	---						
5					---	---						
6					---	---						
7					---	---						
8					---	---						
9					---	---						
10					---	---						
11					---	---						
12					---	---						
13					---	---						
14					---	---						
15					---	---						
16					---	---						
17					---	---						
18					---	---						
19					---	---						
20					---	---						
21					---	---						
22					---	---						
23					---	---						
24					---	---						
25					---	---						
26					---	---						
27					---	---						
28					16.5	16.0						
29					---	---						
30					---	---						
31					---	---						

09306028 WEST FORK STEWART GULCH AT MOUTH, NEAR RIO BLANCO, CO

LOCATION.--Lat 39°48'45", long 108°11'00", in SE¼SE¼ sec.5, T.3 S., R.96 W., Rio Blanco County, Hydrologic Unit 14050006, on left bank 300 ft (91 m) upstream from mouth and 13.8 mi (22.2 km) west of Rio Blanco.

DRAINAGE AREA.--15.7 mi^2 (40.7 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1974 to current year.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 6,443 ft (1,964 m), from topographic map.

REMARKS.--Records for periods of flow are fair. Diversion above station for irrigation of small hay meadows.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 38 ft^3/s (1.08 m^3/s) Sept. 3, 1977, gage height, 1.66 ft (0.506 m); no flow most days each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1.6 ft^3/s (0.045 m^3/s) at 1400 Sept. 24, gage height, 1.19 ft (0.363 m); no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

```
             AUG. 24     0.04                               SEPT. 24     0.09

CAL YR  1980    TOTAL  4.23    MEAN  0.012    MAX  0.70    MIN  0.00    AC-FT   8.4
WTR YR  1981    TOTAL  0.13    MEAN  0.000    MAX  0.09    MIN  0.00    AC-FT   0.3
```

09306028 WEST FORK STEWART GULCH AT MOUTH, NEAR RIO BLANCO, CO

WATER-QUALITY RECORDS

PERIOD OF RECORD.--April 1974 to September 1981 (discontinued).

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: April 1974 to current year.
WATER TEMPERATURE: April 1974 to current year.
SUSPENDED-SEDIMENT DISCHARGE: April 1974 to current year.

INSTRUMENTATION.--Water-quality monitor since April 1974. Automatic pumping sediment sampler since April 1974.

REMARKS.--Flow only on days shown.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Not determined.
WATER TEMPERATURES: Not determined.
SEDIMENT CONCENTRATIONS: Maximum daily, 1,800 mg/L Sept. 3; 1977; no flow many days each year.
SEDIMENT LOADS: Maximum daily, 10 tons (9.1 t) Sept. 24, 1981; no flow many days each year.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 310 micromhos Sept. 24; minimum, 100 micromhos Sept. 24.
WATER TEMPERATURES: Maximum 19.0°C Aug. 24; minimum, 7.5°C Sept. 24.
SEDIMENT CONCENTRATIONS: Maximum daily 1,390 mg/L August 24; no flow many days during year.
SEDIMENT LOADS: Maximum daily 10 tons (9.1 t) Sept. 24, 1981; no flow many days during year.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1											---	---
2											---	---
3											---	---
4											---	---
5											---	---
6											---	---
7											---	---
8											---	---
9											---	---
10											---	---
11											---	---
12											---	---
13											---	---
14											---	---
15											---	---
16											---	---
17											---	---
18											---	---
19											---	---
20											---	---
21											---	---
22											---	---
23											---	---
24											160	142
25											---	---
26											---	---
27											---	---
28											---	---
29											---	---
30											---	---
31											---	---
MEAN											160	142

WTR YR 1981 MEAN 151 MAX 160 MIN 142

09306028 WEST FORK STEWART GULCH AT MOUTH, NEAR RIO BLANCO, CO--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1									---	---	---	---
2									---	---	---	---
3									---	---	---	---
4									---	---	---	---
5									---	---	---	---
6									---	---	---	---
7									---	---	---	---
8									---	---	---	---
9									---	---	---	---
10									---	---	---	---
11									---	---	---	---
12									---	---	---	---
13									---	---	---	---
14									---	---	---	---
15									---	---	---	---
16									---	---	---	---
17									---	---	---	---
18									---	---	---	---
19									---	---	---	---
20									---	---	---	---
21									---	---	---	---
22									---	---	---	---
23									---	---	---	---
24									19.0	14.0	14.0	7.5
25									---	---	---	---
26									---	---	---	---
27									---	---	---	---
28									---	---	---	---
29									---	---	---	---
30									---	---	---	---
31									---	---	---	---
MONTH									19.0	14.0	14.0	7.5
YEAR	19.0	7.5										

09306028 WEST FORK STEWART GULCH AT MOUTH, NEAR RIO BLANCO, CO--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
		JULY			AUGUST			SEPTEMBER	
1	.00			.00	---	---	.00		---
2	.00			.00	---	---	.00		---
3	.00			.00	---	---	.00		---
4	.00			.00	---	---	.00		---
5	.00			.00	---	---	.00		---
6	.00			.00	---	---	.00		---
7	.00			.00	---	---	.00		---
8	.00			.00	---	---	.00		---
9	.00			.00	---	---	.00		---
10	.00			.00	---	---	.00		---
11	.00			.00	---	---	.00		---
12	.00			.00	---	---	.00		---
13	.00			.00	---	---	.00		---
14	.00			.00	---	---	.00		---
15	.00			.00	---	---	.00		---
16	.00			.00	---	---	.00		---
17	.00			.00	---	---	.00		---
18	.00			.00	---	---	.00		---
19	.00			.00	---	---	.00		---
20	.00			.00	---	---	.00		---
21	.00			.00	---	---	.00		---
22	.00			.00	---	---	.00		---
23	.00			.00	---	---	.00		---
24	.00			.04	1390	3.6	.09		10
25	.00			.00	---	---	.00		---
26	.00			.00	---	---	.00		---
27	.00			.00	---	---	.00		---
28	.00			.00	---	---	.00		---
29	.00			.00	---	---	.00		---
30	.00			.00	---	---	.00		---
31	.00			.00	---	---	---		
TOTAL	0.00			0.04	---	3.6	0.09		10
YEAR	0.13		13.6						

09306033 SORGHUM GULCH NEAR RIO BLANCO, CO

LOCATION.--Lat 39°47'07", long 108°12'33", in SE¼SW¼ sec.18, T.3 S., R.96 W., Rio Blanco County, Hydrologic Unit 14050006, on left bank 3.3 mi (5.3 km) upstream from mouth and 14.6 mi (23.5 km) west of Rio Blanco.

DRAINAGE AREA.--1.22 mi² (3.16 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1974 to September 1976, March 21, 1978, to current year.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 6,843 ft (2,085.7 m), from topographic map.

REMARKS.--Records excellent except for periods of flow, which are poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7.0 ft³/s (0.20 m³/s) July 9, 1975, gage height, 1.71 ft (0.251 m); no flow most days each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1.4 ft³/s (0.040 m³/s) July 17, gage height, 1.29 ft (0.393 m), from floodmarks; no flow most days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

MAY 3	0.01	JUNE 2	0.01	JULY 17	0.02	AUG. 24	0.02	SEPT. 24	0.01

CAL YR 1980	TOTAL 1.30	MEAN 0.004	MAX 0.58	MIN 0.00	AC-FT 2.6
WTR YR 1981	TOTAL 0.07	MEAN 0.000	MAX 0.02	MIN 0.00	AC-FT 0.1

WATER-QUALITY RECORDS

PERIOD OF RECORD.--April 1974 to September 1976, March 1978 to September 1981 (discontinued).

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: April 1974 to September 1976, March 1978 to current year.
WATER TEMPERATURE: April 1974 to September 1976, March 1978 to current year.
SUSPENDED-SEDIMENT DISCHARGE: April 1974 to September 1976.

INSTRUMENTATION.--Water-quality monitor and pumping sediment sampler April 1974 to September 1976. Water-quality monitor since March 1978.

REMARKS.--No data available for five days of flow, 1981 water year.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 940 micromhos May 1, 1980; minimum, 160 micromhos July 31, 1976.
WATER TEMPERATURES: Maximum, 18.0°C July 31, 1976; minimum, 0.0°C Feb. 12, 1976.
SEDIMENT CONCENTRATIONS: Maximum daily, 2,000 mg/L July 19, 1975; no flow many days each year.
SEDIMENT LOADS: Maximum daily, 1.4 tons (1.3 t) July 18, 1976; no flow many days each year.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Not determined.
WATER TEMPERATURES: Not determined.

09306036 SORGHUM GULCH AT MOUTH, NEAR RIO BLANCO, CO

LOCATION.--Lat 39°49'30", long 108°11'54", in NW¼NW¼ sec.5, T.3 S., R.96 W., Rio Blanco County, Hydrologic Unit 14050006, on left bank 1,400 ft (430 m) upstream from mouth and 14.8 mi (23.8 km) west of Rio Blanco.

DRAINAGE AREA.--3.62 mi² (9.38 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1974 to current year.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 6,372 ft (1,942.2 m), from topographic map.

REMARKS.--Records excellent except for periods of flow, which are poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 59 ft³/s (1.67 m³/s) Sept. 3, 1977, gage height, 2.92 ft (0.890 m), from rating curve extended above 40 ft³/s (1.13 m³/s), from slope-area measurement; no flow most of each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2.0 ft³/s (0.057 m³/s) at 0030 Oct. 15, gage height, 1.80 ft (0.549 m); no flow most of year.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

OCT 14 0.08		OCT 15 0.14		SEPT 24 0.01	
CAL YR 1980	TOTAL 0.29	MEAN 0.001	MAX 0.14	MIN 0.00	AC-FT 0.6
WTR YR 1981	TOTAL 0.23	MEAN 0.001	MAX 0.14	MIN 0.00	AC-FT 0.5

WATER-QUALITY RECORDS

PERIOD OF RECORD.--April 1974 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: October 1974 to September 1981 (discontinued).
WATER TEMPERATURE: October 1974 to September 1981 (discontinued).
SUSPENDED-SEDIMENT DISCHARGE: October 1974 to current year.

INSTRUMENTATION.--Water-quality monitor since October 1974 to September 1981. Pumping sediment sampler since October 1974.

REMARKS.--No specific-conductance or water-temperature data for the three days of flow in 1981 water year.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Not determined.
WATER TEMPERATURES: Not determined.
SEDIMENT CONCENTRATIONS: Maximum daily, 7,200 mg/L estimated Aug. 1; no flow many days during year.
SEDIMENT LOADS: Maximum daily, 14 tons (13 t) estimated Aug. 1; no flow many days during year.

09306039 COTTONWOOD GULCH NEAR RIO BLANCO, CO

LOCATION.--Lat 39°49'36", long 108°12'25", in SW¼SE¼ sec.31, T.2 S., R.96 W., Rio Blanco County, Hydrologic Unit 14050006, on right bank 800 ft (240 m) upstream from mouth and 15.4 mi (24.8 km) west of Rio Blanco.

DRAINAGE AREA.--1.20 mi² (3.11 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1974 to current year.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 6,353 ft (1,936 m), from topographic map.

REMARKS.--Records excellent except for day of flow, which is poor. No diversion above station.

AVERAGE DISCHARGE.--7 years, 0.01 ft³/s (0.001 m³/s), 7.24 acre-ft/yr (0.009 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 53 ft³/s (1.50 m³/s) Sept. 3, 1977, gage height, 2.94 ft (0.896 m); no flow most of each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 0.16 ft³/s (0.005 m³/s) at 0130 Oct. 15, gage height, 1.45 ft (0.442 m); no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

OCT 15 0.01

CAL YR 1980	TOTAL	0.01	MEAN	0.00	MAX	0.01	MIN	0.00	AC-FT	0.02
WTR YR 1981	TOTAL	0.01	MEAN	0.00	MAX	0.01	MIN	0.00	AC-FT	0.02

WATER-QUALITY RECORDS

PERIOD OF RECORD.--April 1974 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: April 1974 to current year.
WATER TEMPERATURE: April 1974 to current year.
SUSPENDED-SEDIMENT DISCHARGE: April 1974 to current year.

INSTRUMENTATION.--Water-quality monitor since April 1976. Automatic pumping sediment sampler since April 1974.

REMARKS.--Daily maximum and minimum specific-conductance data available in district office. No specific conductance or water temperature data available for the one day of flow in 1981 water year.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 225 micromhos Mar. 24, 1976; minimum, 124 micromhos Mar. 27, 1976.
WATER TEMPERATURES: Maximum, 25.0°C Mar. 27, 1976; minimum, 4.5°C Mar. 24, 1976.
SEDIMENT CONCENTRATIONS: Maximum daily, 62,000 mg/L estimated Sept. 3, 1977; no flow many days each year.
SEDIMENT LOADS: Maximum daily, 200 tons (181 t) estimated Sept. 3, 1977; no flow many days each year.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Not determined.
WATER TEMPERATURES: Not determined.
SEDIMENT CONCENTRATIONS: Not determined.
SEDIMENT LOADS: Not determined.

09306042 PICEANCE CREEK TRIBUTARY NEAR RIO BLANCO, CO

LOCATION.--Lat 39°50'01", long 108°13'12", in SE¼NE¼ sec.36, T.2 S., R.97 W., Rio Blanco County, Hydrologic Unit 14050006, on left bank 600 ft (180 m) upstream from mouth and 16.2 mi (26.1 km) west of Rio Blanco.

DRAINAGE AREA.--1.06 mi² (2.75 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1974 to current year.

REVISED RECORDS.--WDR CO-79-3: 1977(M).

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 6,335 ft (1,931 m), from topographic map.

REMARKS.--Records good. All flow due to discharge of settling ponds on tract Cb.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 384 ft³/s (10.9 m³/s), Sept. 3, 1977, gage height, 2.57 ft (0.783 m), result of slope-area measurement of peak flow; no flow most of each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 5.0 ft³/s (0.14 m³/s) at 0930 June 30, gage height, 1.73 ft (0.527 m); maximum gage height, 2.50 ft (0.762 m) at 1700 Nov. 9 (backwater from debris); no flow Sept. 3-5, 20, 21, 24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.7	2.4	2.6	2.2	2.3	2.0	1.4	1.8	1.2	1.9	1.1	.50
2	1.7	2.4	2.5	2.2	2.3	1.8	1.5	2.4	1.2	1.5	1.5	.50
3	1.7	2.4	2.3	2.1	2.4	2.1	1.5	2.0	1.4	.60	.91	.00
4	1.7	2.4	2.1	2.1	2.3	1.5	1.5	2.0	1.3	1.7	1.1	.00
5	1.8	2.4	2.3	2.2	2.0	1.5	1.6	2.0	1.2	1.9	1.3	.00
6	1.9	2.4	2.4	2.5	1.6	1.7	1.8	2.0	1.6	1.4	1.6	.72
7	2.1	2.4	2.2	2.8	1.2	1.4	1.6	2.0	1.8	1.1	1.4	.59
8	1.3	2.4	2.7	2.6	1.9	1.5	1.5	2.4	1.8	.84	1.9	.46
9	1.5	2.4	2.5	2.3	2.2	1.5	1.4	2.1	1.4	.77	1.0	.45
10	1.7	2.2	2.6	2.4	2.0	1.4	1.4	2.1	.35	1.0	1.3	.28
11	1.9	2.2	2.0	2.5	1.9	1.6	1.4	2.3	.02	1.2	2.0	.71
12	2.0	2.0	2.0	2.6	2.2	1.5	1.4	2.4	.13	1.9	1.3	.76
13	1.7	3.4	2.1	2.6	2.2	1.6	1.2	2.4	.21	2.1	1.1	.47
14	2.1	2.9	2.1	2.6	2.3	1.6	1.4	2.2	.16	1.4	1.1	.75
15	1.2	2.8	2.1	2.6	2.4	1.6	1.3	2.2	.23	1.3	1.9	1.0
16	.78	2.7	2.1	2.6	2.5	1.5	1.3	2.2	.83	1.2	3.1	.63
17	.44	2.6	2.4	2.6	2.5	1.8	1.2	2.1	1.2	1.0	1.7	.60
18	.22	2.6	2.2	2.7	1.5	1.6	1.3	2.1	.86	1.5	1.3	.29
19	.15	2.6	2.6	2.7	1.5	1.5	1.4	1.9	1.0	1.5	1.5	.04
20	.14	2.9	2.8	2.7	1.9	1.5	1.5	1.9	1.2	.85	1.5	.00
21	1.2	2.9	2.6	2.7	2.5	1.4	1.5	2.0	.21	1.3	1.5	.00
22	1.3	2.8	2.7	2.7	2.4	1.5	1.8	1.6	.14	1.4	1.5	.05
23	2.2	3.0	2.5	2.8	2.4	1.3	1.8	2.0	.86	1.0	1.5	.05
24	1.8	2.8	3.1	2.6	2.3	1.3	1.7	2.1	1.3	.84	1.0	.00
25	1.9	2.8	3.1	2.5	1.5	1.5	2.1	1.6	1.5	2.0	1.0	.07
26	2.2	2.8	3.2	2.5	1.6	1.4	2.1	1.8	.72	1.6	1.0	.10
27	2.8	2.8	3.3	2.5	1.8	1.6	2.1	1.5	1.0	.83	1.0	.13
28	2.4	2.7	3.2	2.6	1.9	1.6	2.1	1.8	3.1	.86	1.0	.02
29	2.4	2.6	2.8	2.7	---	1.7	2.1	1.5	2.9	1.5	.50	.08
30	2.4	2.5	2.2	2.5	---	1.6	1.7	1.4	3.2	.98	.50	.03
31	2.4	---	2.4	2.3	---	1.7	---	1.3	---	.92	.50	---
TOTAL	50.73	78.2	77.7	78.0	57.5	48.8	47.6	61.1	34.02	39.89	40.61	9.28
MEAN	1.64	2.61	2.51	2.52	2.05	1.57	1.59	1.97	1.13	1.29	1.31	.31
MAX	2.8	3.4	3.3	2.8	2.5	2.1	2.1	2.4	3.2	2.1	3.1	1.0
MIN	.14	2.0	2.0	2.1	1.2	1.3	1.2	1.3	.02	.60	.50	.00
AC-FT	101	155	154	155	114	97	94	121	67	79	81	18

CAL YR 1980 TOTAL 348.82 MEAN .95 MAX 3.4 MIN .00 AC-FT 692
WTR YR 1981 TOTAL 623.43 MEAN 1.71 MAX 3.4 MIN .00 AC-FT 1240

09306042 PICEANCE CREEK TRIBUTARY NEAR RIO BLANCO, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--April 1974 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: April 1974 to current year.
WATER TEMPERATURE: April 1974 to current year.
pH: Feb. to Sept. 1981 (discontinued).
SUSPENDED-SEDIMENT DISCHARGE: April 1974 to current year.

INSTRUMENTATION.--Water-quality monitor since April 1974. Pumping sediment sampler since April 1974.

REMARKS.--Daily maximum and minimum values of specific conductance are available in the district office.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 2,570 micromhos Sept. 16, 1980; minimum, 958 micromhos July 2, 1980.
WATER TEMPERATURES: Maximum, 33.5°C July 23, 1981; minimum, 0.0°C Sept. 6, 1980.
SEDIMENT CONCENTRATIONS: Maximum daily, 28,000 mg/L estimated Sept. 3, 1978; no flow many days each year.
SEDIMENT LOADS: Maximum daily, 900 tons (820 t) estimated Sept. 3, 1978; no flow many days each year.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum 2,400 micromhos Oct. 2, Sept. 22; minimum, 1,650 micromhos July 17.
WATER TEMPERATURES: Maximum, 33.5°C July 23, minimum, 2.0°C Feb. 10, 11.
pH: Maximum, 9.4 units Aug. 15, 25, 28; minimum, 8.4 units several days in Mar., July, and Sept.
SEDIMENT CONCENTRATIONS: Maximum daily, 12,040 mg/L June 20; no flow many days during year.
SEDIMENT LOADS: Maximum daily, 10 tons (9.1 t) Oct. 11-14; no flow many days.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	BICAR-BONATE FET-FLD (MG/L AS HCO3)	ALKA-LINITY LAB (MG/L AS CACO3)	OXYGEN DEMAND, CHEM-ICAL (HIGH LEVEL) (MG/L)	COLI-FORM, TOTAL, IMMED. (COLS. PER 100 ML)
OCT											
14...	1250	2.5	2490	2490	8.5	16.5	7.2	980	800	--	--
23...	1320	2.8	2370	2426	8.8	15.0	--	1210	990	--	--
NOV											
04...	1220	E2.4	2500	2532	8.3	17.0	7.4	910	750	--	--
DEC											
10...	1200	2.4	2120	2170	8.4	10.6	8.9	1130	930	20	K250
JAN											
13...	1120	3.4	2160	2210	8.4	11.5	8.8	870	710	--	--
23...	1530	3.1	2170	2080	8.8	12.8	8.8	950	780	--	--
FEB											
11...	1200	2.1	2250	2260	8.6	9.0	9.8	900	740	--	--
MAR											
03...	1115	3.5	2200	2200	8.8	13.5	8.9	1050	860	--	--
18...	0947	1.8	--	--	--	--	--	--	--	--	--
APR											
15...	1220	1.2	2120	2140	8.8	17.0	8.5	1110	910	67	K13
15...	1311	1.2	--	--	--	--	--	--	--	--	--
MAY											
12...	1110	2.7	2200	2110	8.6	18.5	7.0	980	800	--	--
19...	1153	2.3	--	--	--	--	--	--	--	--	--
JUN											
09...	1105	1.3	2000	2000	8.9	22.0	4.8	1210	990	--	--
JUL											
01...	1445	1.8	2020	2030	8.8	21.5	7.1	1150	940	--	--
07...	1115	.35	2050	1990	8.8	26.0	6.4	1210	990	23	--
AUG											
04...	1115	.66	1980	1950	8.9	25.0	6.2	1210	990	--	--
SEP											
15...	1130	.71	2150	2120	8.9	19.0	7.8	1060	870	--	--

K BASED ON NON-IDEAL COLONY COUNT.

09306042 PICEANCE CREEK TRIBUTARY NEAR RIO BLANCO, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DATE	COLI-FORM, FECAL, 0.7 UM-MF (COLS./100 ML)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD-NESS (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	SULFIDE TOTAL (MG/L AS S)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)
OCT											
14...	--	--	71	17	7.0	570	29	6.0	--	490	8.1
23...	--	--	66	14	7.5	580	31	4.3	--	270	8.3
NOV											
04...	--	--	70	16	7.3	570	30	5.5	--	470	8.3
DEC											
10...	K8	1700	58	10	7.6	510	30	4.5	.0	200	6.0
JAN											
13...	--	--	51	11	5.6	540	33	3.3	--	410	6.5
23...	--	--	62	12	7.6	490	27	4.4	--	420	6.6
FEB											
11...	--	--	58	13	6.3	510	29	2.2	--	410	9.5
MAR											
03...	--	--	58	12	6.9	530	30	2.7	--	340	6.4
18...	--	--	--	--	--	--	--	--	--	--	--
APR											
15...	<4	K12	51	10	6.1	540	33	3.5	.0	250	6.7
15...	--	--	--	--	--	--	--	--	--	--	--
MAY											
12...	--	--	65	14	7.4	510	27	2.2	--	380	6.6
19...	--	--	--	--	--	--	--	--	--	--	--
JUN											
09...	--	--	51	9.9	6.5	490	30	2.8	--	120	6.9
JUL											
01...	--	--	60	11	7.6	480	27	2.4	--	110	7.2
07...	40	410	66	12	8.3	520	28	2.0	.7	95	7.2
AUG											
04...	--	--	57	10	7.7	480	31	2.0	--	91	8.0
SEP											
15...	--	--	62	13	7.2	510	28	3.7	--	260	12

DATE	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	BROMIDE DIS-SOLVED (MG/L AS BR)	IODIDE, DIS-SOLVED (MG/L AS I)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN DIS-SOLVED (MG/L AS N)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N)
OCT											
14...	--	--	--	--	1580	2.2	10.7	2.0	.280	2.9	.60
23...	17	--	--	62	1570	2.1	11.9	1.4	.100	2.2	.71
NOV											
04...	17	--	--	8.2	1560	2.1	7.6	2.4	.350	3.4	.65
DEC											
10...	16	.00	--	35	1360	1.9	8.8	2.6	.010	3.4	.75
JAN											
13...	19	--	--	46	1480	2.0	13.6	2.0	.110	3.3	1.2
23...	15	--	--	13	1450	2.0	12.1	2.0	.090	2.6	.54
FEB											
11...	--	--	--	31	1440	2.0	8.2	1.9	.190	3.0	.91
MAR											
03...	15	--	--	31	1470	2.0	13.9	2.3	.090	3.4	1.0
18...	--	--	--	--	--	--	--	--	--	--	--
APR											
15...	15	.10	--	37	1430	1.9	4.6	3.3	.040	4.3	.96
15...	--	--	--	--	--	--	--	--	--	--	--
MAY											
12...	15	--	--	19	1440	2.0	10.5	1.3	.090	2.1	.66
19...	--	--	--	--	--	--	--	--	--	--	--
JUN											
09...	16	--	--	30	1280	1.7	4.5	.88	.080	1.4	.45
JUL											
01...	16	--	--	28	1240	1.7	6.0	1.2	.090	2.0	.73
07...	16	.20	.020	30	1290	1.8	1.2	.57	.060	1.1	.49
AUG											
04...	--	--	--	26	1220	1.7	2.2	.04	.050	1.0	.95
SEP											
15...	19	--	--	35	1400	1.9	2.7	3.2	.330	4.8	1.3

K BASED ON NON-IDEAL COLONY COUNT.

09306042 PICEANCE CREEK TRIBUTARY NEAR RIO BLANCO, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	NITROGEN,AMMONIA + ORGANIC DIS. (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	ARSENIC DISSOLVED (UG/L AS AS)	BORON, DISSOLVED (UG/L AS B)	IRON, DISSOLVED (UG/L AS FE)	MANGANESE, DISSOLVED (UG/L AS MN)	CARBON, ORGANIC DISSOLVED (MG/L AS C)	CARBON, ORGANIC SUSPENDED TOTAL (MG/L AS C)	PHENOLS (UG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)
OCT											
14...	.88	1.20	--	13	550	110	10	8.1	12	0	--
23...	.81	.390	--	8	780	60	0	34	--	3	--
NOV											
04...	1.0	.310	--	8	770	50	10	3.4	.9	0	--
DEC											
10...	.76	.080	--	7	770	20	0	41	--	4	--
JAN											
13...	1.3	.060	--	7	760	60	10	7.5	--	2	--
23...	.63	--	--	--	800	90	--	--	--	--	--
FEB											
11...	1.1	.090	--	7	840	10	10	18	1.1	0	--
MAR											
03...	1.1	.090	--	4	810	20	0	16	1.7	0	--
18...	--	--	--	--	--	--	--	--	--	--	--
APR											
15...	1.0	.050	--	4	840	30	10	49	.6	0	.10
15...	--	--	--	--	--	--	--	--	--	--	--
MAY											
12...	.75	.090	--	3	830	30	10	4.6	.4	0	--
19...	--	--	--	--	--	--	--	--	--	--	--
JUN											
09...	.53	.180	--	3	820	20	8	5.7	.6	2	--
JUL											
01...	.82	--	.040	3	790	40	0	--	--	--	--
07...	.55	.040	--	4	800	<10	3	3.2	.2	0	--
AUG											
04...	1.0	.020	--	5	840	34	6	3.7	.1	0	--
SEP											
15...	1.6	.210	--	7	790	20	0	5.9	20	0	--

09306042 PICEANCE CREEK TRIBUTARY NEAR RIO BLANCO, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	ALUMINUM, DISSOLVED (UG/L AS AL)	BARIUM, DISSOLVED (UG/L AS BA)	BERYLLIUM, DISSOLVED (UG/L AS BE)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, DISSOLVED (UG/L AS CR)	COBALT, DISSOLVED (UG/L AS CO)	COPPER, DISSOLVED (UG/L AS CU)	LEAD, DISSOLVED (UG/L AS PB)	LITHIUM DISSOLVED (UG/L AS LI)
DEC 10...	60	300	--	1	0	--	1	0	30
JAN 23...	--	--	--	--	--	--	--	--	--
APR 15...	0	200	--	0	10	--	5	0	40
JUL 01...	10	200	0	1	10	0	2	3	40
07...	10	500	--	<1	10	--	3	3	30

DATE	MERCURY DISSOLVED (UG/L AS HG)	MOLYBDENUM, DISSOLVED (UG/L AS MO)	NICKEL, DISSOLVED (UG/L AS NI)	SELENIUM, DISSOLVED (UG/L AS SE)	STRONTIUM, DISSOLVED (UG/L AS SR)	ZINC, DISSOLVED (UG/L AS ZN)	GROSS ALPHA, DISSOLVED (PCI/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (PCI/L AS U-NAT)	GROSS ALPHA, DISSOLVED (UG/L AS U-NAT)
DEC 10...	.0	51	--	0	1000	10	14	3.6	<21
JAN 23...	--	31	--	--	710	--	--	--	--
APR 15...	.0	16	--	0	770	10	22	.3	<33
JUL 01...	.0	6	1	0	890	0	--	--	--
07...	.0	<10	--	0	1100	9	23	.3	<34

DATE	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT)	GROSS BETA, DISSOLVED (PCI/L AS CS-137)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137)	GROSS BETA, DISSOLVED (PCI/L AS SR/YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/YT-90)	RADIUM 226, DISSOLVED, RADON METHOD (PCI/L)	URANIUM NATURAL DISSOLVED (UG/L AS U)	CYANIDE TOTAL (MG/L AS CN)
DEC 10...	5.3	<11	4.4	<10	4.2	.11	2.3	.00
JAN 23...	--	--	--	--	--	--	--	--
APR 15...	<.4	<16	.5	<15	.5	.11	1.5	.00
JUL 01...	--	--	--	--	--	--	--	.00
07...	<.4	<16	<.4	<15	<.4	.14	2.0	.00

09306042 PICEANCE CREEK TRIBUTARY NEAR RIO BLANCO, CO--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	21.0	11.0	---	---	11.5	8.5	14.0	9.0	9.5	5.5	15.0	10.0
2	20.0	10.0	---	---	12.5	9.0	14.0	10.0	12.0	4.5	15.0	9.5
3	20.0	9.5	---	---	12.5	10.5	14.0	10.0	12.5	6.0	14.0	9.0
4	21.0	10.0	18.0	13.0	12.0	10.5	14.0	10.5	13.0	7.0	15.0	7.5
5	20.5	10.5	18.5	12.0	13.0	10.0	12.0	9.5	13.0	6.0	16.5	7.5
6	20.5	11.0	17.0	12.5	13.5	10.0	12.5	8.0	12.0	5.0	12.0	5.0
7	20.5	11.5	---	---	12.0	10.0	12.5	7.5	11.5	4.0	14.0	8.5
8	21.0	10.5	---	---	12.0	7.5	12.5	7.5	11.5	5.0	16.0	8.0
9	20.5	11.5	---	---	10.5	6.0	13.0	7.5	12.0	7.5	17.5	7.0
10	---	---	---	---	11.0	6.5	13.0	8.0	9.0	2.0	17.0	8.0
11	---	---	16.5	11.0	12.5	7.5	12.5	7.0	9.5	2.0	13.5	9.0
12	---	---	16.0	13.5	12.0	7.5	13.0	7.0	14.0	7.5	15.5	8.0
13	---	---	14.0	11.5	11.5	7.5	12.5	7.0	15.5	8.0	16.0	8.0
14	---	---	12.5	10.0	12.5	7.5	13.0	7.5	14.0	10.0	16.0	8.0
15	---	---	13.0	8.5	13.5	8.5	13.0	8.5	15.5	10.0	19.0	8.0
16	---	---	11.5	8.0	14.5	9.5	12.0	7.5	16.5	10.5	16.5	7.5
17	---	---	12.0	7.0	15.0	10.0	13.0	9.5	15.5	11.0	14.5	8.5
18	---	---	12.5	7.5	14.5	10.0	13.0	8.5	15.0	8.0	17.0	7.5
19	---	---	13.0	7.5	13.5	9.5	13.5	8.5	15.5	8.5	17.0	8.5
20	---	---	13.0	7.5	14.0	9.0	13.5	8.5	12.0	7.5	13.5	8.5
21	---	---	13.0	8.0	14.0	10.0	13.5	7.0	13.0	8.0	13.5	8.0
22	---	---	12.5	9.0	13.0	10.5	13.5	7.5	15.0	8.0	16.5	9.5
23	15.5	9.5	13.5	9.5	13.0	9.0	14.5	8.0	16.5	9.0	18.0	9.5
24	---	---	12.0	9.5	12.5	9.0	12.5	9.0	16.0	8.0	15.0	9.0
25	---	---	12.0	7.0	13.5	10.0	12.5	7.5	14.5	7.0	19.0	10.0
26	---	---	12.0	7.5	14.0	9.5	11.5	7.0	13.0	8.0	18.5	8.5
27	---	---	12.0	6.0	14.5	10.5	11.5	8.5	16.5	9.0	14.5	9.0
28	---	---	13.5	9.0	14.5	10.5	12.5	10.0	16.0	8.5	12.0	8.0
29	---	---	13.5	9.0	13.5	9.0	13.0	10.0	---	---	18.5	9.0
30	---	---	12.0	10.0	14.0	9.0	10.5	7.5	---	---	11.5	6.5
31	---	---	---	---	14.0	9.0	10.0	7.0	---	---	17.5	5.5
MONTH	21.0	9.5	18.5	6.0	15.0	6.0	14.5	7.0	16.5	2.0	19.0	5.0

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	19.0	8.0	25.5	14.0	26.0	13.0	21.5	19.0	28.0	15.5	25.0	16.0
2	19.0	9.0	22.5	16.0	27.0	12.5	27.5	17.5	28.5	12.5	25.0	15.5
3	13.0	5.5	18.5	10.0	22.0	14.5	32.0	12.5	30.0	11.0	---	---
4	14.5	6.5	23.0	12.5	27.0	14.0	30.0	16.0	31.0	14.0	---	---
5	19.5	5.5	23.0	13.0	28.0	13.0	28.0	17.0	28.5	9.5	---	---
6	20.0	9.0	21.5	12.5	28.5	14.0	28.5	15.5	27.0	9.0	21.5	13.0
7	15.0	10.5	20.0	11.0	25.5	16.0	31.5	14.5	30.0	16.0	27.0	13.5
8	16.0	10.0	18.0	10.5	26.0	15.5	30.0	13.0	26.5	14.5	28.5	10.0
9	21.5	9.5	20.5	12.0	27.0	15.0	30.5	15.5	28.5	13.5	26.5	3.0
10	21.5	10.0	22.5	12.0	28.5	12.5	30.5	15.5	19.0	14.5	20.0	13.0
11	21.5	10.0	21.0	12.0	13.5	12.0	32.0	15.0	20.5	16.5	26.0	11.0
12	20.0	10.0	21.5	12.0	17.5	13.0	27.0	15.5	28.5	14.5	26.0	11.0
13	20.0	11.0	22.0	9.5	24.0	13.0	24.5	19.5	22.5	13.5	27.0	11.0
14	20.5	9.5	23.0	13.0	11.0	4.5	32.0	16.5	23.0	14.0	26.0	9.5
15	20.5	12.0	19.0	14.0	25.5	3.0	30.0	15.5	26.5	17.0	26.0	11.0
16	21.5	11.0	19.5	13.0	26.0	4.5	21.5	14.0	26.5	16.0	26.0	9.5
17	22.0	11.5	17.5	13.5	25.5	13.5	22.0	15.0	28.0	12.0	24.0	9.0
18	21.0	11.0	23.0	14.0	25.5	11.0	27.5	15.0	26.5	11.5	25.0	12.0
19	22.0	12.0	19.0	14.5	28.0	10.5	26.5	13.0	24.0	11.5	23.5	11.5
20	20.0	10.5	18.0	11.5	26.0	12.0	28.0	9.5	26.0	13.0	---	---
21	19.5	10.0	16.0	11.5	27.5	13.5	27.5	12.0	20.5	11.5	---	---
22	21.0	11.0	17.5	11.5	29.0	13.0	28.5	13.0	25.0	12.5	24.5	17.0
23	23.5	10.0	20.5	13.0	27.0	14.5	33.5	10.5	28.0	15.5	21.5	13.5
24	24.0	11.0	22.0	13.5	29.0	14.0	32.0	13.5	23.0	12.5	---	---
25	23.5	13.0	20.5	12.5	29.0	14.0	27.5	14.5	26.5	15.5	10.5	10.5
26	22.5	11.5	21.0	14.5	---	---	29.0	15.0	30.0	13.5	16.5	6.0
27	22.5	11.5	21.5	15.0	26.0	15.5	31.5	12.0	29.0	15.0	12.0	2.0
28	24.0	11.0	24.0	14.5	25.5	17.5	30.0	10.0	29.5	14.0	9.0	7.5
29	24.5	11.0	24.5	14.0	29.0	16.0	26.0	9.5	24.5	14.5	8.5	6.0
30	24.5	12.0	27.0	12.5	28.5	17.5	30.0	13.0	25.0	15.0	7.5	7.5
31	---	---	24.0	15.0	---	---	32.0	13.5	26.5	17.5	---	---
MONTH	24.5	5.5	27.0	9.5	29.0	3.0	33.5	9.5	31.0	9.0	28.5	2.0

09306042 PICEANCE CREEK TRIBUTARY NEAR RIO BLANCO, CO-Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2190	---	2040	2060	2110	2080	2110	2130	2010	2010	1970	2010
2	2200	---	2040	2030	2120	2100	2110	2170	2000	2030	1980	2030
3	2190	---	2060	2050	2140	2080	2060	2100	1960	1970	1960	---
4	2190	2150	2030	2070	2070	2080	2100	2140	2040	1930	1990	---
5	2190	2100	2040	2070	2090	2090	2110	2070	2020	1960	1980	---
6	2200	2070	2050	2120	2100	2010	2100	2040	2030	1970	2000	2050
7	2170	---	2060	2060	2040	2070	2070	2080	2000	1980	1920	2000
8	2230	---	2050	2050	2170	2060	2080	2060	1950	1970	---	2010
9	---	---	2040	2070	2140	2130	2080	2070	1980	1950	---	1970
10	---	---	2090	2090	2070	2120	2090	2080	2020	1960	---	1970
11	---	2120	2060	2070	2150	2160	2110	2100	2070	1950	---	1990
12	---	2080	2040	---	2090	2160	2110	2120	2040	---	---	2010
13	---	2140	2060	2090	2080	2120	2140	2030	2060	---	---	2020
14	---	2180	2070	2100	2120	2180	2170	2000	2060	---	---	2050
15	---	2180	2100	2070	2080	2240	2130	1990	2050	---	---	2100
16	---	2150	2100	2090	2110	2160	2110	2030	2030	1960	---	2070
17	---	2120	2080	2090	2060	2190	2100	2110	2040	1930	---	2120
18	---	2130	2090	2100	2080	2180	2090	2170	2030	1960	---	2150
19	---	2110	2130	2160	2080	2160	2100	2110	2050	1990	---	2200
20	---	2090	2140	2120	2110	2130	2130	2030	---	1970	---	---
21	---	2080	2080	2120	2080	2200	2110	2040	---	1990	---	---
22	---	2100	2080	2100	2120	2160	2140	2000	---	2010	---	2270
23	2110	2120	2050	2130	2150	2130	2140	2000	2010	1990	---	2340
24	---	2110	2090	2190	2070	2160	2150	1990	2030	1960	---	---
25	---	2110	2090	2120	2060	2230	2160	2010	2040	2010	---	2290
26	---	2100	2050	2100	2140	2220	2150	2010	2020	1990	---	2330
27	---	2100	2050	2160	2080	2170	2160	2000	1960	1990	---	2270
28	---	2030	2060	2160	2100	2110	2180	2010	1990	1990	---	2310
29	---	2010	2050	2170	---	2120	2160	2020	2000	1960	---	2320
30	---	2020	2060	2140	---	2080	2150	2000	2010	1960	---	2330
31	---	---	2100	2110	---	2090	---	1980	---	1970	2050	---
MEAN	2190	2100	2070	2100	2100	2130	2120	2050	2020	1970	1980	2130

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
MAR 18...	0947	1.8	110	.53	52
APR 15...	1311	1.2	46	.15	16

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
MAY 19...	1153	2.3	514	3.2	52

09306042 PICEANCE CREEK TRIBUTARY NEAR RIO BLANCO, CO—Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
		OCTOBER			NOVEMBER			DECEMBER	
1	1.7	220	1.0	2.4	---	2.0	2.6	---	1.0
2	1.7	801	4.5	2.4	---	2.0	2.5	---	1.0
3	1.7	305	1.4	2.4	---	2.0	2.3	---	1.0
4	1.7	230	1.1	2.4	238	1.5	2.1	---	1.0
5	1.8	242	1.2	2.4	---	2.0	2.3	---	1.0
6	1.9	---	2.0	2.4	---	2.0	2.4	---	1.0
7	2.1	---	5.0	2.4	---	2.0	2.2	---	1.0
8	1.3	---	5.0	2.4	---	2.0	2.7	---	1.0
9	1.5	---	5.0	2.4	---	2.0	2.5	---	1.0
10	1.7	---	5.0	2.2	---	1.0	2.6	164	1.0
11	1.9	---	10	2.2	---	1.0	2.0	---	1.0
12	2.0	---	10	2.0	---	1.0	2.0	---	1.0
13	1.7	---	10	3.4	---	3.0	2.1	---	1.0
14	2.1	---	10	2.9	---	2.0	2.1	---	1.0
15	1.2	---	5.0	2.8	---	2.0	2.1	152	1.0
16	.78	---	1.0	2.7	---	2.0	2.1	226	1.0
17	.44	---	.50	2.6	---	2.0	2.4	671	4.3
18	.22	---	.20	2.6	---	2.0	2.2	---	3.0
19	.15	---	.20	2.6	---	2.0	2.6	---	2.0
20	.14	---	.20	2.9	---	3.0	2.8	---	2.0
21	1.2	---	2.0	2.9	---	3.0	2.6	---	2.0
22	1.3	---	4.0	2.8	---	3.0	2.7	---	2.0
23	2.2	1300	7.7	3.0	---	3.0	2.5	---	1.5
24	1.8	---	3.0	2.8	---	2.0	3.1	---	2.0
25	1.9	---	3.0	2.8	---	2.0	3.1	---	2.0
26	2.2	---	3.0	2.8	---	2.0	3.2	---	2.0
27	2.8	---	4.0	2.8	---	2.0	3.3	---	2.0
28	2.4	---	2.0	2.7	---	2.0	3.2	---	2.0
29	2.4	---	2.0	2.6	---	1.0	2.8	---	1.0
30	2.4	---	2.0	2.5	---	1.0	2.2	88	.52
31	2.4	---	2.0	---	---	---	2.4	---	1.0
TOTAL	50.73	---	113.00	78.2	---	59.5	77.7	---	45.32
		JANUARY			FEBRUARY			MARCH	
1	2.2	---	.50	2.3	38	.24	2.0	57	.31
2	2.2	---	.50	2.3	47	.29	1.8	40	.19
3	2.1	---	.50	2.4	45	.29	2.1	60	.34
4	2.1	---	.50	2.3	59	.37	1.5	40	.16
5	2.2	---	.50	2.0	52	.19	1.5	23	.09
6	2.5	---	.50	1.6	---	.20	1.7	40	.18
7	2.8	---	.50	1.2	---	.10	1.4	85	.32
8	2.6	89	.62	1.9	---	.30	1.5	60	.24
9	2.3	86	.53	2.2	---	.30	1.5	96	.39
10	2.4	108	.70	2.0	---	.40	1.4	39	.15
11	2.5	96	.65	1.9	---	.40	1.6	65	.28
12	2.6	93	.65	2.2	186	.55	1.5	70	.28
13	2.6	103	.72	2.2	---	.50	1.6	50	.22
14	2.6	102	.72	2.3	---	.50	1.6	68	.29
15	2.6	70	.49	2.4	---	.50	1.6	91	.39
16	2.6	53	.37	2.5	---	.50	1.5	72	.29
17	2.6	54	.38	2.5	---	.50	1.8	39	.19
18	2.7	105	.77	1.5	---	.50	1.6	65	.28
19	2.7	107	.78	1.5	---	.50	1.5	72	.29
20	2.7	70	.51	1.9	---	.50	1.5	72	.29
21	2.7	80	.58	2.5	---	.50	1.4	84	.32
22	2.7	---	.50	2.4	---	.50	1.5	130	.53
23	2.8	---	.50	2.4	91	.59	1.3	99	.35
24	2.6	---	.50	2.3	53	.33	1.3	69	.24
25	2.5	---	.50	1.5	25	.10	1.5	120	.49
26	2.5	---	.50	1.6	71	.35	1.4	110	.42
27	2.5	---	.50	1.8	50	.24	1.6	120	.52
28	2.6	---	.50	1.9	82	.42	1.6	80	.35
29	2.7	80	.58	---	---	---	1.7	95	.44
30	2.5	53	.36	---	---	---	1.6	85	.37
31	2.3	55	.34	---	---	---	1.7	88	.40
TOTAL	78.0	---	16.75	57.5	---	10.66	48.8	---	9.60

09306042 PICEANCE CREEK TRIBUTARY NEAR RIO BLANCO, CO—Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
		APRIL			MAY			JUNE	
1	1.4	45	.17	1.8	74	.36	1.2	38	.12
2	1.5	50	.20	2.4	101	.65	1.2	37	.12
3	1.5	68	.28	2.0	100	.54	1.4	42	.16
4	1.5	45	.18	2.0	104	.56	1.3	50	.18
5	1.6	44	.19	2.0	134	.72	1.2	39	.13
6	1.8	166	.86	2.0	172	.93	1.6	135	.70
7	1.6	56	.24	2.0	144	.78	1.8	122	.64
8	1.5	86	.35	2.4	125	.81	1.8	113	.60
9	1.4	30	.11	2.1	87	.49	1.4	52	.20
10	1.4	34	.13	2.1	71	.40	.35	23	.02
11	1.4	42	.16	2.3	126	.78	.02	---	.00
12	1.4	60	.23	2.4	83	.54	.13	39	.08
13	1.2	21	.07	2.4	98	.64	.21	---	.05
14	1.4	42	.16	2.2	110	.65	.16	---	.05
15	1.3	27	.09	2.2	148	.88	.23	---	.05
16	1.3	36	.13	2.2	142	.84	.83	193	.61
17	1.2	31	.10	2.1	226	1.3	1.2	180	.58
18	1.3	42	.15	2.1	234	1.3	.86	110	.26
19	1.4	68	.29	1.9	220	1.1	1.0	659	2.1
20	1.5	20	.08	1.9	355	1.8	1.2	1240	4.1
21	1.5	35	.15	2.0	106	.57	.21	---	.05
22	1.8	59	.33	1.6	95	.41	.14	---	.05
23	1.8	29	.14	2.0	165	.89	.86	155	.36
24	1.7	22	.10	2.1	278	1.6	1.3	103	.36
25	2.1	63	.37	1.6	190	.82	1.5	125	.51
26	2.1	30	.17	1.8	150	.73	.72	75	.15
27	2.1	27	.15	1.5	80	.32	1.0	653	2.2
28	2.1	28	.16	1.8	115	.56	3.1	510	4.3
29	2.1	43	.24	1.5	58	.23	2.9	---	3.0
30	1.7	74	.34	1.4	45	.17	3.2	---	2.0
31	---	---	---	1.3	65	.23	---	---	---
TOTAL	47.6	---	6.32	61.1	---	22.60	34.02	---	23.73
		JULY			AUGUST			SEPTEMBER	
1	1.9	100	.51	1.1	---	.50	.50	---	.10
2	1.5	35	.14	1.5	---	1.0	.50	---	.10
3	.60	25	.04	.91	---	.50	.00	---	---
4	1.7	110	.50	1.1	---	1.0	.00	---	---
5	1.9	75	.38	1.3	---	1.5	.00	---	---
6	1.4	45	.17	1.6	585	2.5	.72	45	.09
7	1.1	80	.24	1.4	---	1.5	.59	8	.01
8	.84	55	.12	1.9	---	2.0	.46	3	.00
9	.77	100	.21	1.0	---	1.0	.45	---	.00
10	1.0	30	.08	1.3	---	1.0	.28	---	.00
11	1.2	140	.45	2.0	---	2.0	.71	5	.00
12	1.9	160	.82	1.3	---	1.0	.76	2	.00
13	2.1	145	.82	1.1	---	1.0	.47	---	.05
14	1.4	110	.42	1.1	554	1.6	.75	45	.09
15	1.3	75	.26	1.9	317	1.6	1.0	60	.16
16	1.2	100	.32	3.1	363	3.0	.63	300	.51
17	1.0	72	.19	1.7	---	2.0	.60	28	.05
18	1.5	77	.31	1.3	---	1.0	.29	7	.00
19	1.5	102	.41	1.5	---	1.0	.04	---	.00
20	.85	96	.22	1.5	---	1.0	.00	---	---
21	1.3	121	.42	1.5	---	1.0	.00	---	---
22	1.4	105	.40	1.5	---	1.0	.05	---	.00
23	1.0	90	.24	1.5	---	1.0	.05	33	.04
24	.84	52	.12	1.0	---	1.0	.00	---	---
25	2.0	256	1.4	1.0	---	1.0	.07	---	.00
26	1.6	96	.41	1.0	---	1.0	.10	6	.00
27	.83	102	.23	1.0	---	1.0	.13	---	.00
28	.86	99	.20	1.0	---	1.0	.02	---	.00
29	1.5	---	.50	.50	---	.50	.08	---	.00
30	.98	---	.20	.50	---	.50	.03	---	.00
31	.92	---	.20	.50	500	.68	---	---	---
TOTAL	39.89	---	10.93	40.61	---	37.38	9.28	---	1.20
YEAR	623.43		356.99						

09306045 PICEANCE CREEK BELOW GARDENHIRE GULCH, NEAR RIO BLANCO, CO

LOCATION.--Lat 39°50'08", long 108°13'14", in SE¼NE¼ sec.36, T.2 S., R.97 W., Rio Blanco County, Hydrologic Unit 14050006, on left bank 300 ft (91 m) downstream from Piceance Creek tributary and 18.8 mi (14.2 km) west of Rio Blanco.

DRAINAGE AREA.--Not determined.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1980 to September 1981.

GAGE.--Water-stage recorder. Altitude of gage is 6,310 ft (1,923 m), from topographic map.

REMARKS.--Records good except those for period of no gage-height record, which are fair. Diversions above and below station for irrigation.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 37 ft³/s (1.05 m³/s) at 1615 Feb. 11, gage height, 1.51 ft (0.460 m); minimum daily, 2.4 ft³/s (0.068 m³/s) Apr. 17.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.0	15	14	15	14	11	15	8.0	5.1	7.9	3.6	8.6
2	8.0	15	14	15	14	9.9	15	8.3	5.9	7.7	3.6	7.9
3	8.5	16	14	15	14	9.9	22	11	5.6	6.6	3.1	7.1
4	8.5	16	14	15	14	9.1	18	11	4.9	8.2	3.5	6.9
5	8.5	18	14	15	13	8.6	16	9.9	4.6	8.2	4.0	6.6
6	9.0	18	14	15	13	11	17	12	5.7	7.2	6.0	8.5
7	6.0	19	14	15	12	12	27	5.8	6.4	6.1	5.3	8.1
8	5.5	19	14	15	13	12	21	5.4	6.2	5.5	5.9	7.1
9	5.5	18	14	15	13	11	14	7.7	4.9	6.0	4.9	5.8
10	6.0	19	14	15	12	13	11	10	3.8	8.0	5.6	5.6
11	7.5	20	15	15	12	13	11	10	5.8	7.9	7.6	5.6
12	9.0	24	15	20	14	12	8.3	8.8	6.4	8.2	7.9	5.4
13	9.0	26	15	20	13	12	6.8	9.3	6.4	7.3	8.1	5.2
14	8.5	24	15	17	12	12	5.1	8.8	7.0	6.1	8.4	5.4
15	11	22	15	14	13	12	4.2	8.5	7.3	5.5	8.8	5.4
16	9.5	20	16	14	13	12	2.8	8.9	7.0	5.3	8.7	4.9
17	9.5	20	17	14	13	14	2.4	11	5.4	5.4	7.3	5.4
18	9.5	20	17	13	12	13	2.5	10	5.6	5.7	7.7	5.3
19	10	18	17	14	12	12	2.9	7.1	4.8	5.6	7.7	4.6
20	10	17	17	14	15	12	3.0	5.9	5.4	4.8	9.0	4.6
21	10	17	18	14	14	13	3.8	4.6	5.2	5.0	10	4.6
22	11	17	17	14	13	13	4.3	3.7	6.8	5.4	10	4.9
23	9.5	16	17	14	13	12	4.2	4.8	8.0	5.1	10	5.3
24	9.5	16	17	13	11	13	3.8	4.8	9.3	4.9	10	4.7
25	11	15	16	13	14	13	4.2	5.3	9.5	6.1	9.7	3.7
26	10	15	16	13	13	12	4.3	4.7	7.8	5.9	6.9	3.8
27	14	15	16	13	11	19	5.2	4.0	7.9	5.0	7.5	4.7
28	15	15	16	13	12	16	8.6	4.4	10	4.7	7.2	5.3
29	15	15	16	13	---	15	8.5	3.9	9.6	4.8	7.5	4.4
30	15	14	15	14	---	17	8.2	3.6	8.0	4.0	9.6	4.9
31	15	---	15	14	---	15	---	4.3	---	3.6	7.9	---
TOTAL	302.0	539	478	453	362	389.5	280.1	225.5	196.3	187.7	223.0	170.3
MEAN	9.74	18.0	15.4	14.6	12.9	12.6	9.34	7.27	6.54	6.05	7.19	5.68
MAX	15	26	18	20	15	19	27	12	10	8.2	10	8.6
MIN	5.5	14	14	13	11	8.6	2.4	3.6	3.8	3.6	3.1	3.7
AC-FT	599	1070	948	899	718	773	556	447	389	372	442	338

WTR YR 1981 TOTAL 3806.4 MEAN 10.4 MAX 27 MIN 2.4 AC-FT 7550

NOTE.--NO GAGE-HEIGHT RECORD OCT. 1 TO DEC. 15.

09306045 PICEANCE CREEK BELOW GARDENHIRE GULCH NEAR RIO BLANCO, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1980 to September 1981 (discontinued).

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: October 1980 to September 1981.
WATER TEMPERATURE: October 1980 to September 1981.
pH: February to June 1981.

INSTRUMENTATION.--Water-quality monitor October 1980 to September 1981.

REMARKS.--Maximum and minimum daily values of specific conductance are available in the district office.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 1,900 micromhos Apr. 19; minimum, 974 micromhos Aug. 12.
WATER TEMPERATURES: Maximum, 26.5°C July 8, 23; minimum, 0.0°C Feb. 10, Mar. 6.
pH: Maximum, not determined; minimum, not determined.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	SPECIFIC CONDUCTANCE LAB (UMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	NITROGEN DIS-SOLVED (MG/L AS N)	HARDNESS (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNESIUM, DIS-SOLVED (MG/L AS MG)
OCT											
23...	1305	9.5	1500	1498	8.3	9.0	--	1.7	370	63	52
JAN											
23...	1535	15	1280	1290	8.5	5.9	10.3	1.4	350	63	46
JUL											
01...	1520	7.8	1410	1410	8.3	18.0	7.4	1.2	370	62	51

DATE	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTASSIUM, DIS-SOLVED (MG/L AS K)	BICARBONATE FET-FLD (MG/L AS HCO3)	ALKALINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLORIDE, DIS-SOLVED (MG/L AS CL)	FLUORIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)
OCT											
23...	230	5.2	3.6	680	560	250	12	3.1	26	977	1.3
JAN											
23...	190	4.4	2.5	520	430	260	11	3.2	26	864	1.2
JUL											
01...	210	4.8	3.1	650	530	250	11	3.2	22	936	1.3

DATE	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITROGEN, NITRATE DIS-SOLVED (MG/L AS N)	NITROGEN, NITRITE DIS-SOLVED (MG/L AS N)	NITROGEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITROGEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITROGEN, ORGANIC DIS-SOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, DIS-SOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, DIS-SOLVED (MG/L AS P)
OCT										
23...	25.1	--	--	.49	.040	1.2	1.2	.210	--	--
JAN										
23...	35.0	--	--	.86	.060	.49	.55	--	.050	--
JUL										
01...	19.7	.26	.030	.29	.090	.83	.92	--	.040	.020

09306045 PICEANCE CREEK BELOW GARDENHIRE GULCH NEAR RIO BLANCO, CO--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, DISSOLVED (UG/L AS BA)	BERYLLIUM, DISSOLVED (UG/L AS BE)	BORON, DISSOLVED (UG/L AS B)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, DISSOLVED (UG/L AS CR)	COBALT, DISSOLVED (UG/L AS CO)	COPPER, DISSOLVED (UG/L AS CU)	IRON, DISSOLVED (UG/L AS FE)	LEAD, DISSOLVED (UG/L AS PB)	LITHIUM DISSOLVED (UG/L AS LI)
OCT												
23...	--	4	--	--	330	--	--	--	--	10	--	--
JAN												
23...	--	--	--	--	270	--	--	--	--	20	--	--
JUL												
01...	10	3	300	<1	320	<1	10	<3	4	30	5	20

DATE	MANGANESE, DISSOLVED (UG/L AS MN)	MERCURY DISSOLVED (UG/L AS HG)	MOLYBDENUM, DISSOLVED (UG/L AS MO)	NICKEL, DISSOLVED (UG/L AS NI)	SELENIUM, DISSOLVED (UG/L AS SE)	STRONTIUM, DISSOLVED (UG/L AS SR)	VANADIUM, DISSOLVED (UG/L AS V)	ZINC, DISSOLVED (UG/L AS ZN)	POTASSIUM 40 DISSOLVED (PCI/L AS K40)	CARBON, ORGANIC DISSOLVED (MG/L AS C)	CYANIDE TOTAL (MG/L AS CN)	PHENOLS (UG/L)
OCT												
23...	90	--	--	--	--	--	--	--	--	20	--	3
JAN												
23...	--	--	16	--	--	1700	--	--	1.9	--	--	--
JUL												
01...	100	.1	<10	1	0	1800	8.0	2	2.3	5.8	.00	--

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
DEC					
16...	1229	16	103	4.4	--
23...	1218	18	86	4.2	--
30...	1109	14	824	31	24
JAN					
06...	1310	16	124	5.4	--

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	1330	1270	1210	1320	1310	1270	1390	1440	1400	---	1480
2	---	1340	1260	1230	1430	1320	1260	1410	1470	1430	---	1340
3	---	1340	1260	1250	1370	1350	1200	1290	1460	1350	---	1280
4	---	1330	1260	1270	1330	1300	1210	---	1540	1430	---	1270
5	---	1330	1260	1290	1360	1330	1260	---	1540	1440	---	1250
6	---	1330	1250	1300	1300	1260	1260	---	1500	1380	1540	1290
7	---	1320	1250	1290	1290	1240	1170	1610	1540	1380	1460	1290
8	---	---	1240	1280	1320	1260	1170	1640	1560	1350	1480	1300
9	---	---	1230	1270	1310	1260	1240	1490	1560	1320	1430	1330
10	---	---	1210	1270	1290	1230	1270	---	1480	1280	1400	1310
11	---	1260	1160	1280	1410	1250	1270	---	1470	1280	1410	1390
12	---	1260	1180	1300	1280	1250	1370	---	1500	1340	1280	1410
13	---	1280	1210	1310	1300	1240	1450	1280	1490	1410	1210	1380
14	---	1280	1230	1260	1300	1250	1530	1290	1450	1360	1360	1410
15	---	1290	1260	1320	1280	1250	1660	1350	1450	1390	1430	1460
16	---	1290	1300	1310	1280	1240	1780	1350	1470	1400	1490	1400
17	---	1280	1300	1320	1280	1210	1800	1330	1570	1420	1380	1450
18	---	1280	1300	1300	1220	1240	1770	1440	1460	1460	1400	1450
19	---	1280	1290	1320	1220	1240	1790	1490	1530	1480	1370	1370
20	---	1280	1290	1310	1220	1240	1790	1510	1590	1400	1390	1370
21	---	1280	1270	1300	1280	1230	1720	1640	---	1440	1370	1360
22	---	1280	1270	1300	1290	1250	1690	1600	---	1470	1360	1370
23	---	1280	1250	1300	1310	1220	1690	1600	---	1440	1390	1380
24	---	1270	1260	1330	1320	1220	1690	1620	---	1400	1370	1360
25	---	1280	1270	1320	1190	1280	1740	1530	---	1500	1410	1410
26	---	1280	1260	1310	1210	1290	1720	1510	---	1460	1410	1410
27	---	1280	1250	1310	1270	1240	1670	1520	---	1380	1390	1390
28	1330	1270	1270	1330	1280	1240	1440	1530	---	1370	1390	1360
29	1340	1260	1260	1330	---	1280	1390	1490	---	1400	1390	1400
30	1330	1270	1240	1330	---	1220	1380	1480	---	---	1440	1370
31	1330	---	1220	1320	---	1270	---	1420	---	---	1460	---

09306045 PICEANCE CREEK BELOW GARDENHIRE GULCH NEAR RIO BLANCO, CO--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	---	---	10.5	5.5	7.0	4.5	7.0	2.5	5.0	1.0	10.0	4.5
2	---	---	9.5	6.0	7.5	4.5	7.5	3.0	3.0	1.0	10.0	5.0
3	---	---	9.5	6.0	8.5	6.5	7.5	3.5	3.5	1.0	10.5	4.0
4	---	---	11.0	6.5	9.0	6.5	7.5	4.0	4.5	1.0	12.0	4.0
5	---	---	11.5	6.5	8.0	6.0	6.0	4.0	3.5	1.0	12.0	3.0
6	---	---	10.5	6.5	8.5	5.5	6.0	2.5	4.0	.5	6.0	.0
7	---	---	11.0	7.0	7.0	5.5	4.0	1.5	3.5	.5	9.0	2.5
8	---	---	---	---	6.5	3.5	4.0	1.5	4.5	.5	11.0	2.0
9	---	---	---	---	5.0	3.0	4.5	1.5	7.0	1.5	13.0	1.5
10	---	---	---	---	4.0	2.5	5.0	1.5	3.5	.0	12.5	1.5
11	---	---	10.0	9.0	4.5	1.5	4.0	1.5	2.0	.0	8.0	2.0
12	---	---	10.0	8.5	4.5	1.5	4.5	1.0	7.0	1.5	10.5	4.5
13	---	---	8.5	6.5	4.0	1.0	3.5	1.0	8.5	1.5	10.5	2.5
14	---	---	7.0	5.5	3.5	1.0	3.5	1.0	8.0	2.5	12.0	2.5
15	---	---	6.0	3.5	5.5	1.5	4.5	1.0	10.5	3.5	14.0	2.5
16	---	---	6.0	3.0	7.0	2.0	4.0	1.5	11.5	3.5	12.0	2.5
17	---	---	5.5	2.5	7.5	3.0	6.0	3.0	9.0	3.5	8.5	3.0
18	---	---	5.5	2.5	7.5	3.0	5.5	2.0	10.0	3.0	12.0	2.5
19	---	---	6.5	2.5	7.0	3.0	5.5	2.0	10.0	2.5	12.5	3.0
20	---	---	6.5	3.0	7.0	2.5	6.5	2.5	6.5	2.5	9.0	5.0
21	---	---	6.5	2.5	7.5	3.5	5.5	2.5	8.5	1.5	8.0	4.0
22	---	---	7.0	3.5	8.5	5.0	6.0	2.5	9.0	1.5	12.0	3.0
23	---	---	7.5	4.5	7.5	4.0	6.5	2.5	12.0	2.0	13.5	4.0
24	---	---	6.5	4.5	7.0	2.5	7.0	3.5	12.5	3.0	9.5	4.5
25	---	---	7.0	3.0	8.5	4.5	7.5	3.5	10.0	2.0	14.0	3.0
26	---	---	6.5	3.0	8.5	4.5	5.5	3.0	7.5	3.0	14.0	5.0
27	---	---	5.0	2.0	9.0	4.5	5.5	3.5	12.5	4.5	12.0	5.0
28	7.5	5.5	7.5	3.5	8.5	5.0	7.5	4.0	12.0	3.5	7.5	4.0
29	9.0	4.5	7.5	4.0	7.5	3.5	8.0	4.5	---	---	15.0	3.0
30	10.0	5.0	8.0	5.5	7.0	2.5	5.0	2.5	---	---	6.0	3.0
31	10.5	5.5	---	---	7.0	2.5	4.0	1.0	---	---	12.5	.5
MONTH	10.5	4.5	11.5	2.0	9.0	1.0	8.0	1.0	12.5	.0	15.0	.0

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	14.0	2.5	21.0	9.0	23.0	9.0	---	---	25.5	13.5	22.5	11.0
2	15.0	3.0	20.5	11.5	24.5	8.5	22.0	13.5	24.5	11.0	19.5	11.5
3	7.5	2.0	13.0	8.0	18.0	11.0	24.0	11.0	26.0	11.0	20.5	11.5
4	10.0	2.5	20.5	7.0	23.5	10.5	25.0	12.0	25.0	11.5	21.0	9.5
5	13.0	.5	19.0	7.5	25.0	9.0	25.5	12.0	26.0	10.0	15.0	12.5
6	15.5	3.0	19.0	8.5	25.0	10.0	26.0	12.0	25.0	15.0	16.0	12.0
7	8.5	4.5	18.0	8.0	24.0	12.0	26.0	13.0	24.0	12.0	19.5	12.0
8	11.0	4.5	15.0	7.0	25.0	11.0	26.5	13.0	24.0	12.0	21.5	9.5
9	17.5	4.5	18.5	7.5	24.5	10.5	25.0	13.5	24.5	11.0	19.0	11.5
10	18.0	5.0	18.5	6.0	24.0	10.0	23.0	13.0	15.0	11.0	16.0	11.0
11	17.5	5.0	14.5	7.0	24.0	9.5	24.5	14.5	16.5	11.5	21.0	10.0
12	16.5	4.5	16.5	6.5	23.5	9.5	23.5	14.0	20.5	11.5	21.5	9.5
13	18.0	6.5	19.5	5.0	21.5	9.0	22.5	15.5	18.5	11.5	21.5	9.5
14	17.0	5.0	20.0	7.5	16.0	7.0	26.5	15.0	18.5	11.5	21.0	9.5
15	18.5	8.5	17.0	9.5	20.5	5.5	26.0	12.5	18.5	12.0	22.0	9.0
16	19.5	7.0	16.5	9.5	22.0	6.0	18.5	13.5	23.0	12.0	20.5	8.0
17	21.0	8.0	14.0	9.0	22.5	9.5	18.5	12.5	22.0	10.0	20.5	7.0
18	18.5	8.0	21.5	9.5	21.5	8.5	25.0	12.5	21.0	9.5	21.0	5.5
19	21.0	9.0	16.0	10.0	24.0	9.0	25.0	11.0	19.0	10.0	20.0	7.0
20	18.0	7.0	14.0	8.5	23.5	9.5	25.5	9.5	19.5	11.0	19.5	8.0
21	17.0	6.0	14.5	7.5	21.0	10.5	25.5	10.0	15.0	10.5	19.5	10.0
22	18.5	6.5	15.5	8.5	20.5	10.5	24.5	12.5	20.5	10.0	20.0	10.0
23	22.5	5.0	20.5	9.0	21.0	10.5	26.5	11.0	21.0	11.5	17.5	8.0
24	21.5	6.5	20.0	9.5	25.0	11.0	24.5	13.0	17.5	11.0	15.0	9.0
25	22.0	8.0	18.0	9.0	23.5	11.0	26.0	14.0	22.0	11.5	17.5	8.5
26	21.5	7.0	18.0	10.0	26.0	13.0	24.0	13.5	23.5	10.5	17.5	6.5
27	21.0	7.5	21.0	11.0	23.0	13.5	24.0	11.5	22.0	13.0	18.0	6.5
28	21.0	6.5	23.0	11.0	23.0	14.5	23.5	11.0	21.0	11.5	17.0	7.5
29	22.0	7.0	21.5	10.5	25.0	12.5	22.0	10.5	19.0	11.5	15.0	8.0
30	21.0	7.5	25.0	8.0	25.0	13.5	24.0	11.5	21.5	12.5	16.0	9.0
31	---	---	19.5	11.5	---	---	24.5	11.0	22.0	12.0	---	---
MONTH	22.5	.5	25.0	5.0	26.0	5.5	26.5	9.5	26.0	9.5	22.5	5.5
YEAR	26.5	.0										

09306045 PICEANCE CREEK BELOW GARDENHIRE GULCH NEAR RIO BLANCO, CO--Continued

PH (STANDARD UNITS), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1									---	---	8.5	8.4
2									---	---	8.4	8.4
3									---	---	8.5	8.4
4									---	---	8.5	8.4
5									---	---	8.5	8.4
6									---	---	8.5	8.4
7									---	---	8.5	8.4
8									---	---	8.5	8.4
9									---	---	8.5	8.4
10									---	---	8.5	8.4
11									---	---	8.4	8.4
12									---	---	8.4	8.4
13									---	---	8.5	8.4
14									---	---	8.5	8.4
15									---	---	8.4	8.4
16									---	---	8.5	8.4
17									---	---	8.4	8.4
18									---	---	8.5	8.4
19									---	---	8.5	8.4
20									---	---	8.5	8.4
21									---	---	8.4	8.4
22									---	---	8.5	8.4
23									8.4	8.4	8.5	8.3
24									8.5	8.4	8.5	8.3
25									8.5	8.3	8.5	8.2
26									8.4	8.3	8.4	8.2
27									8.5	8.4	8.4	8.3
28									8.5	8.4	8.5	8.3
29									---	---	8.5	8.3
30									---	---	8.7	8.3
31									---	---	8.7	8.4
MONTH									8.5	8.3	8.7	8.2

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	8.6	8.3	8.5	8.3	8.6	8.4						
2	8.6	8.3	8.5	8.2	8.6	8.4						
3	8.4	8.3	8.4	8.2	---	---						
4	8.6	8.3	8.5	8.2	---	---						
5	8.7	8.3	8.6	8.2	---	---						
6	8.6	8.3	---	---	---	---						
7	8.4	8.3	---	---	---	---						
8	8.5	8.3	8.7	8.5	---	---						
9	8.6	8.3	8.7	8.5	---	---						
10	8.6	8.3	8.7	8.5	---	---						
11	8.6	8.3	8.6	8.5	---	---						
12	8.7	8.4	8.7	8.5	---	---						
13	8.6	8.3	8.7	8.4	---	---						
14	8.7	8.3	8.7	8.5	---	---						
15	8.8	8.4	---	---	---	---						
16	8.9	8.5	---	---	---	---						
17	8.8	8.5	---	---	---	---						
18	8.9	8.5	---	---	---	---						
19	8.8	8.4	---	---	---	---						
20	8.7	8.3	---	---	---	---						
21	8.6	8.3	---	---	---	---						
22	8.7	8.4	8.7	8.4	---	---						
23	8.6	8.4	8.7	8.5	---	---						
24	8.8	8.5	8.6	8.5	---	---						
25	8.7	8.3	8.6	8.4	---	---						
26	8.6	8.3	8.6	8.4	---	---						
27	8.6	8.2	8.7	8.4	---	---						
28	8.5	8.2	8.7	8.5	---	---						
29	8.5	8.2	8.7	8.5	---	---						
30	8.6	8.4	8.5	8.3	---	---						
31	---	---	8.5	8.4	---	---						
MONTH	8.9	8.2	8.7	8.2	8.6	8.4						

09306050 SCANDARD GULCH NEAR RIO BLANCO, CO

LOCATION.--Lat 39°47'38", long 108°13'40", in NE¼NW¼ sec.13, T.3 S., R.97 W., Rio Blanco County, Hydrologic Unit 14050006, on left bank 50 ft (15 m) downstream from Little Scandard Gulch and 15.8 mi (25.4 km) west of Rio Blanco.

DRAINAGE AREA.--6.61 mi^2 (17.12 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1974 to September 1976, March 1978 to current year.

REVISED RECORDS.--WDR CO-79-3: Drainage area.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 6,646 ft (2,025.7 m), from topographic map.

REMARKS.--Records excellent except for day of flow, which is poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9.1 ft^3/s (0.258 m^3/s) July 29, 1978, gage height, 1.71 ft (0.521 m), from rating curve extended above point of zero flow on basis of slope-area measurement at gage height 1.67 ft (0.509 m); no flow most of each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge 8.0 ft^3/s (0.23 m^3/s) at 2100 July 17, gage height, 1.67 ft (0.509 m), from floodmark, on basis of slope-area measurement of peak flow; no flow most of the year.

REVISIONS.--The maximum discharge for water year 1978 has been revised to 9.1 ft^3/s (0.258 m^3/s) July 29, 1978, gage height has been revised to 1.71 ft (0.521 m), from rating curve extended above point of zero-flow on basis of slope-area measurement at gage height 1.67 ft (0.509 m), these figures supersede those published in WDR-CO-78-3.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

APR. 3	0.01	MAY 3	0.02	JULY 17	0.13

CAL YR 1980	TOTAL	0.01	MEAN	0.000	MAX	0.01	MIN	0.00	AC-FT	0.02
WTR YR 1981	TOTAL	0.16	MEAN	0.000	MAX	0.13	MIN	0.00	AC-FT	0.3

WATER-QUALITY RECORDS

PERIOD OF RECORD.--April 1974 to September 1976, March 1978 to September 1981 (discontinued).

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: April 1974 to September 1976, March 1978 to September 1981.
WATER TEMPERATURE: April 1974 to September 1976, March 1978 to September 1981.
SUSPENDED-SEDIMENT DISCHARGE: April 1974 to September 1976.

INSTRUMENTATION.--Water-quality monitor since April 1974 to September 1981. Automatic pumping sediment sampler April 1974 to September 1976.

REMARKS.--Flow only on days shown, no specific-conductance or water-temperature data available.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SEDIMENT CONCENTRATIONS: Maximum daily, 1,400 mg/L Mar. 5, 1975; no flow on many days each year.
SEDIMENT LOADS: Maximum daily, 8.0 tons (7.0 t) estimated Mar. 17, 1976; no flow many days each year.

09306052 SCANDARD GULCH AT MOUTH, NEAR RIO BLANCO, CO

LOCATION.--Lat 39°48'51", long 108°14'35", in SW¼SE¼ sec.2, T.3 S., R.97 W., Rio Blanco County, Hydrologic Unit 14050006, on right bank 2,100 ft (640 m) upstream from mouth and 16.8 mi (27.0 km) west of Rio Blanco.

DRAINAGE AREA.--7.97 mi² (20.64 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1974 to September 1976, November 1977 to current year.

REVISED RECORDS.--WDR CO-79-3: Drainage area.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 6,434 ft (1,961.1 m), from topographic map.

REMARKS.--Records excellent except for days of flow which are fair.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6.3 ft³/s (0.18 m³/s) July 17, 1981, gage height, 1.14 ft (0.347 m); maximum gage height, 1.65 ft (0.503 m), Mar. 4, 1975 (backwater from ice); no flow most days of each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 6.3 ft³/s (0.18 m³/s) at 2315 July 17, gage height, 1.14 ft (0.347 m); no flow most of year.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

NOV. 1	1.2	NOV. 2	1.8	NOV. 3	0.40	JULY 17	0.34	JULY 18	0.09	SEPT. 30	1.5

CAL YR 1980	TOTAL	7.81	MEAN	0.021	MAX	2.4	MIN	0.00	AC-FT	15
WTR YR 1981	TOTAL	5.33	MEAN	0.015	MAX	1.8	MIN	0.00	AC-FT	11

09306052 SCANDARD GULCH AT MOUTH, NEAR RIO BLANCO, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--April 1974 to September 1976, November 1977 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: April 1974 to September 1976, November 1977 to September 1981 (discontinued).
WATER TEMPERATURE: April 1974 to September 1976, November 1977 to September 1981 (discontinued).
SUSPENDED SEDIMENT DISCHARGE.--April 1974 to September 1976, November 1977 to September 1981 (discontinued).

INSTRUMENTATION.--Water-quality monitor since April 1974. Automatic pumping sediment sampler since April 1974.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 674 micromhos Nov. 1, 1980; minimum, 147 micromhos July 29, 1978.
WATER TEMPERATURES: Maximum, 22.0°C July 29, 1978; minimum, 0.0°C Nov. 3, 1980.
SEDIMENT CONCENTRATIONS: Maximum daily, 49,000 mg/L July 29, 1978; no flow many days each year.
SEDIMENT LOADS: Maximum daily, 120 tons (109 t) estimated Sept. 30, 1981; no flow many days each year.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 674 micromhos Nov. 1; minimum, 470 micromhos Nov. 1, 2.
WATER TEMPERATURE: Maximum, 11.0°C Nov. 1; minimum 0.0°C Nov. 3.
SEDIMENT CONCENTRATIONS: Maximum, not determined; minimum, no flow many days during year.
SEDIMENT LOADS: Maximum daily, 120 tons (109 t) estimated Sept. 30; minimum, no flow many days during year.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		527										
2		529										
3		---										
4		---										
5		---										
6		---										
7		---										
8		---										
9		---										
10		---										
11		---										
12		---										
13		---										
14		---										
15		---										
16		---										
17		---										
18		---										
19		---										
20		---										
21		---										
22		---										
23		---										
24		---										
25		---										
26		---										
27		---										
28		---										
29		---										
30		---										
31		---										
MEAN		528										

WTR YR 1981 MEAN 528 MAX 529 MIN 527

09306052 SCANDARD GULCH AT MOUTH, NEAR RIO BLANCO, CO--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1			11.0	.5								
2			10.0	.5								
3			1.5	.0								
4			---	---								
5			---	---								
6			---	---								
7			---	---								
8			---	---								
9			---	---								
10			---	---								
11			---	---								
12			---	---								
13			---	---								
14			---	---								
15			---	---								
16			---	---								
17			---	---								
18			---	---								
19			---	---								
20			---	---								
21			---	---								
22			---	---								
23			---	---								
24			---	---								
25			---	---								
26			---	---								
27			---	---								
28			---	---								
29			---	---								
30			---	---								
31			---	---								
MONTH			11.0	.0								

09306052 SCANDARD GULCH AT MOUTH, NEAR RIO BLANCO, CO--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
		OCTOBER			NOVEMBER			DECEMBER	
1	.00			1.2		63	.00		
2	.00			1.8		97	.00		
3	.00			.40		15	.00		
4	.00			.00		---	.00		
5	.00			.00		---	.00		
6	.00			.00		---	.00		
7	.00			.00		---	.00		
8	.00			.00		---	.00		
9	.00			.00		---	.00		
10	.00			.00		---	.00		
11	.00			.00		---	.00		
12	.00			.00		---	.00		
13	.00			.00		---	.00		
14	.00			.00		---	.00		
15	.00			.00		---	.00		
16	.00			.00		---	.00		
17	.00			.00		---	.00		
18	.00			.00		---	.00		
19	.00			.00		---	.00		
20	.00			.00		---	.00		
21	.00			.00		---	.00		
22	.00			.00		---	.00		
23	.00			.00		---	.00		
24	.00			.00		---	.00		
25	.00			.00		---	.00		
26	.00			.00		---	.00		
27	.00			.00		---	.00		
28	.00			.00		---	.00		
29	.00			.00		---	.00		
30	.00			.00		---	.00		
31	.00			---			.00		
OTAL	0.00			3.40		175	0.00		

DAY	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
		JULY			AUGUST			SEPTEMBER	
1	.00		---	.00			.00		---
2	.00		---	.00			.00		---
3	.00		---	.00			.00		---
4	.00		---	.00			.00		---
5	.00		---	.00			.00		---
6	.00		---	.00			.00		---
7	.00		---	.00			.00		---
8	.00		---	.00			.00		---
9	.00		---	.00			.00		---
10	.00		---	.00			.00		---
11	.00		---	.00			.00		---
12	.00		---	.00			.00		---
13	.00		---	.00			.00		---
14	.00		---	.00			.00		---
15	.00		---	.00			.00		---
16	.00		---	.00			.00		---
17	.34		41	.00			.00		---
18	.09		3.2	.00			.00		---
19	.00		---	.00			.00		---
20	.00		---	.00			.00		---
21	.00		---	.00			.00		---
22	.00		---	.00			.00		---
23	.00		---	.00			.00		---
24	.00		---	.00			.00		---
25	.00		---	.00			.00		---
26	.00		---	.00			.00		---
27	.00		---	.00			.00		---
28	.00		---	.00			.00		---
29	.00		---	.00			.00		---
30	.00		---	.00			1.5		120
31	.00		---	.00			---		
TOTAL	0.43		44.2	0.00			1.50		120
YEAR	5.33		339.2						

09306058 WILLOW CREEK NEAR RIO BLANCO, CO

LOCATION.--Lat 39°50'14", long 108°14'37", in NW¼NE¼ sec.35, T.2 S., R.97 W., Rio Blanco County, Hydrologic Unit 14050006, on right bank 1,500 ft (460 m) upstream from mouth and 17.4 mi (28.0 km) west of Rio Blanco.

DRAINAGE AREA.--48.4 mi² (125.4 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1974 to current year.

REVISED RECORDS.--WDR CO-79-3: Drainage area.

GAGE.--Water-stage recorder. Concrete control since Aug. 9, 1974. Altitude of gage is 6,273 ft (1,912 m), from topographic map.

REMARKS.--Records good. Diversions above station for irrigation of about 315 acres (1.27 km²).

AVERAGE DISCHARGE.--7 years, 2.04 ft³/s (0.058 m³/s) 1,480 acre-ft/yr (1.82 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 23 ft³/s (0.65 m³/s) Sept. 3, 1977, gage height, 4.46 ft (1.359 m); no flow for many days in 1978, 1979.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 5.3 ft³/s (0.15 m³/s) at 0200 Aug. 6, gage height, 3.28 ft (1.000 m); maximum gage height, 3.48 ft (1.061 m) Nov. 17, (backwater from ice); minimum daily discharge, 0.18 ft³/s (0.005 m³/s) May 23, 24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.3	4.4	4.2	3.9	3.0	1.7	3.0	.25	.70	.40	.69	1.4
2	4.3	4.3	4.2	3.9	3.0	1.6	2.9	.27	.58	.38	.76	1.4
3	4.3	4.3	4.2	4.0	3.0	1.9	3.0	.48	.39	.38	.78	1.4
4	4.2	4.3	4.2	4.1	3.0	2.1	2.9	.46	.48	.31	.76	1.4
5	4.2	4.7	4.1	4.1	2.9	1.9	3.2	.72	.48	.26	2.0	1.4
6	4.2	5.0	4.1	3.8	2.9	1.8	3.1	1.8	.42	.24	4.6	1.5
7	4.3	4.8	4.4	2.5	2.9	2.2	3.2	1.6	.39	.21	2.0	1.5
8	4.3	4.7	4.4	2.5	2.8	1.9	3.0	1.6	.50	.19	1.8	1.5
9	4.3	5.1	4.5	2.5	2.6	2.0	2.9	1.8	.79	.28	1.7	1.5
10	4.3	5.0	4.4	2.5	2.5	2.2	2.8	1.8	.80	.26	1.8	1.5
11	4.3	4.9	4.4	2.5	2.4	2.0	3.0	3.2	.70	.54	1.8	1.5
12	4.3	4.9	4.4	2.5	2.6	2.1	3.2	3.0	.69	.42	1.8	1.4
13	4.4	4.9	4.0	2.5	2.6	2.1	3.2	1.5	.74	.42	1.9	1.4
14	4.5	4.9	4.0	2.5	2.6	1.9	3.0	.34	1.0	.41	1.8	1.4
15	4.6	4.8	4.0	2.5	2.8	2.0	2.8	.25	.93	.40	1.8	1.4
16	4.5	4.6	4.0	2.7	3.0	2.1	3.2	.25	.71	.42	1.8	1.4
17	4.4	4.4	4.2	2.7	2.9	2.0	1.3	.25	.49	.48	1.7	1.4
18	4.3	4.2	4.4	2.5	2.2	1.9	.27	.22	.68	.47	1.6	1.4
19	4.3	4.2	4.4	2.5	2.0	1.9	.35	.20	.59	.47	1.6	1.4
20	4.3	4.2	4.4	2.5	2.2	2.0	.39	.21	.28	.47	1.6	1.4
21	4.2	4.2	4.3	2.5	2.2	2.2	.31	.21	.30	.47	1.6	1.4
22	4.2	4.2	4.3	2.5	2.1	2.1	.25	.19	.41	.48	1.7	1.2
23	4.2	4.2	4.3	2.5	2.1	2.2	.22	.18	.37	.50	1.6	1.1
24	4.2	4.2	4.2	3.0	2.0	2.5	.27	.18	.34	.56	1.7	1.2
25	4.1	4.2	4.3	3.1	1.9	2.7	.62	.25	.34	.58	1.6	1.2
26	4.1	4.2	4.2	2.5	2.0	2.6	.29	.21	.33	.58	1.5	1.2
27	4.3	4.2	4.2	3.0	2.0	2.7	.21	.20	.34	.59	1.5	1.3
28	4.4	4.2	4.2	3.1	2.1	2.8	.28	.23	.36	.59	1.5	1.2
29	4.5	4.2	4.1	3.5	---	2.7	.25	.26	.35	.63	1.5	1.2
30	4.6	4.2	3.9	3.2	---	3.1	.23	.25	.36	.67	1.6	1.2
31	4.5	---	3.9	3.1	---	3.3	---	.29	---	.69	1.5	---
TOTAL	133.9	134.6	130.8	91.2	70.3	68.2	53.64	22.65	15.84	13.75	51.59	40.8
MEAN	4.32	4.49	4.22	2.94	2.51	2.20	1.79	.73	.53	.44	1.66	1.36
MAX	4.6	5.1	4.5	4.1	3.0	3.3	3.2	3.2	1.0	.69	4.6	1.5
MIN	4.1	4.2	3.9	2.5	1.9	1.6	.21	.18	.28	.19	.69	1.1
AC-FT	266	267	259	181	139	135	106	45	31	27	102	81

CAL YR 1980 TOTAL 1462.81 MEAN 4.00 MAX 7.1 MIN .18 AC-FT 2900
WTR YR 1981 TOTAL 827.27 MEAN 2.27 MAX 5.1 MIN .18 AC-FT 1640

09306058 WILLOW CREEK NEAR RIO BLANCO, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--April 1974 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: November 1974 to current year.
pH: March 1976 to September 1981 (discontinued).
DISSOLVED OXYGEN: March 1976 to September 1981 (discontinued).
WATER TEMPERATURE: November 1974 to current year.
SUSPENDED-SEDIMENT DISCHARGE: October 1974 to current year.

INSTRUMENTATION.--Water-quality monitor since November 1974. Pumping sediment sampler since October 1974.

REMARKS.--Daily maximum and minimum specific-conductance data available in district office.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 1,920 micromhos July 14, 1976; minimum, 528 micromhos Mar. 18, 1976.
WATER TEMPERATURES: Maximum, 30.0°C July 17, 1976; minimum, 0.0°C on many days during winter months each year.
DISSOLVED OXYGEN: Maximum, 12.9 mg/L Mar. 29, 1979; minimum, 3.6 mg/L Sept. 29, 1978.
pH: Maximum, 8.8 units Mar. 11, 1980; minimum, 7.4 units June 4, 6, 1980.
SEDIMENT CONCENTRATIONS: Maximum daily, 7,030 mg/L July 29, 1979; no flow many days during 1978.
SEDIMENT LOADS: Maximum daily, 61 tons (55 t) July 29, 30, 1979; no flow many days during 1978.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 1,590 micromhos July 2; minimum, 580 micromhos July 11.
WATER TEMPERATURES: Maximum, 29.5°C June 26; minimum, 0.0°C on many days during October to April.
DISSOLVED OXYGEN: Maximum, 12.0 mg/L Apr. 15; minimum, 5.9 mg/L May 30.
pH: Maximum, 8.6 units several days in Oct., Dec., Jan.-Mar., Aug., Sept.; minimum, 7.9 units on Oct. 21, Apr. 15 and several days in May and June.
SEDIMENT CONCENTRATIONS: Maximum daily, 644 mg/L March 31; minimum daily, 1 mg/L several days during month of September.
SEDIMENT LOADS: Maximum daily, 6.3 tons (5.7 t) March 31; minimum daily, 0.00 tons (0.00 t) several days during month of September.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	BICAR-BONATE FET-FLD (MG/L AS HCO3)	ALKA-LINITY LAB (MG/L AS CACO3)	OXYGEN DEMAND, CHEM-ICAL (HIGH LEVEL) (MG/L)	COLI-FORM, TOTAL, IMMED. (COLS. PER 100 ML)
OCT											
14...	1345	4.4	1290	1230	8.2	10.5	9.8	450	370	--	--
NOV											
04...	1310	3.9	1220	1226	8.0	8.5	9.6	440	360	--	--
19...	1100	3.6	1220	--	8.3	.0	11.8	510	--	--	--
DEC											
10...	1255	E4.4	1230	1240	8.0	.0	12.2	460	380	10	110
JAN											
13...	1240	E2.5	1240	1240	8.0	.0	11.5	480	390	--	--
23...	1600	E2.5	1180	1180	8.4	5.6	10.3	430	350	--	--
FEB											
11...	1330	E2.4	1350	1340	8.3	.0	12.7	500	410	--	--
MAR											
03...	1200	2.2	1220	1210	8.4	5.5	10.2	--	360	--	--
11...	1200	--	--	--	--	--	--	440	--	--	--
19...	1130	2.2	1250	--	8.3	6.0	11.6	510	--	--	--
APR											
15...	1350	2.5	1250	1240	8.3	14.5	9.8	440	360	85	K200
MAY											
12...	1130	2.8	--	--	--	--	--	--	--	--	--
12...	1135	2.8	1300	1300	8.2	11.0	8.6	450	370	--	--
JUN											
09...	1130	.59	1380	1300	8.2	18.5	8.0	480	390	--	--
23...	1100	.36	1430	--	8.3	16.5	8.4	560	--	--	--
JUL											
07...	1230	.38	1410	1340	8.2	22.5	7.6	490	400	24	180
AUG											
04...	1150	.81	1340	1330	8.2	17.0	7.9	500	410	--	--
SEP											
15...	1245	1.5	1220	1260	8.4	13.0	9.2	450	370	--	--
25...	1130	1.3	1240	--	8.2	10.0	8.8	540	--	--	--

K BASED ON NON-IDEAL COLONY COUNT.
E ESTIMATED.

09306058 WILLOW CREEK NEAR RIO BLANCO, CO--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	COLI-FORM, FECAL, 0.7 UM-MF (COLS./100 ML)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD-NESS (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	SULFIDE TOTAL (MG/L AS S)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)
OCT											
14...	--	--	460	77	66	120	2.4	2.1	--	300	11
NOV											
04...	--	--	450	79	62	110	2.3	1.4	--	280	11
19...	--	--	--	--	--	--	--	--	--	--	--
DEC											
10...	K8	1300	490	88	66	120	2.4	2.3	.0	310	10
JAN											
13...	--	--	490	82	69	110	2.2	1.1	--	300	11
23...	--	--	460	76	64	120	2.5	1.4	--	300	10
FEB											
11...	--	--	520	92	71	120	2.3	.7	--	320	11
MAR											
03...	--	--	490	89	64	110	2.2	1.4	--	290	11
11...	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--
APR											
15...	K20	140	480	80	68	110	2.2	1.7	.7	300	11
MAY											
12...	--	--	--	--	--	--	--	--	--	--	--
12...	--	--	530	93	72	120	2.3	1.4	--	330	26
JUN											
09...	--	--	510	86	71	120	2.3	2.0	--	360	10
23...	--	--	--	--	--	--	--	--	--	--	--
JUL											
07...	66	620	510	76	77	140	2.7	1.9	.9	380	12
AUG											
04...	--	--	520	90	72	130	2.8	2.3	--	340	11
SEP											
15...	--	--	480	80	68	110	2.5	1.2	--	300	11
25...	--	--	--	--	--	--	--	--	--	--	--

DATE	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	BROMIDE DIS-SOLVED (MG/L AS BR)	IODIDE, DIS-SOLVED (MG/L AS I)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN DIS-SOLVED (MG/L AS N)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N)
OCT											
14...	.2	--	--	16	816	1.1	9.7	.41	.000	--	--
NOV											
04...	.6	--	--	16	779	1.1	8.2	.46	.080	1.2	.68
19...	--	--	--	--	--	--	--	--	--	--	--
DEC											
10...	.7	.00	--	17	846	1.2	12.6	.63	.000	1.0	.39
JAN											
13...	.6	--	--	16	829	1.1	10.5	.64	.040	1.5	.86
23...	.5	--	--	17	806	1.1	--	.49	.020	1.0	.52
FEB											
11...	.3	--	--	17	881	1.2	4.8	.62	.060	1.4	.74
MAR											
03...	.3	--	--	16	800	1.1	4.8	.50	.040	2.1	1.6
11...	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--
APR											
15...	.4	.00	--	16	808	1.1	5.5	.22	.030	.59	.34
MAY											
12...	--	--	--	--	--	--	--	--	--	--	--
12...	.4	--	--	15	881	1.2	6.7	.29	.060	.91	.56
JUN											
09...	.4	--	--	15	902	1.2	1.4	.11	.080	.53	.34
23...	--	--	--	--	--	--	--	--	--	--	--
JUL											
07...	.5	.20	.060	16	949	1.3	.97	.00	.080	.87	.79
AUG											
04...	.5	--	--	17	921	1.3	2.0	2.7	.150	3.9	1.1
SEP											
15...	.4	--	--	16	809	1.1	3.3	.07	.080	.68	.53
25...	--	--	--	--	--	--	--	--	--	--	--

K BASED ON NON-IDEAL COLONY COUNT.

09306058 WILLOW CREEK NEAR RIO BLANCO, CO--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	ARSENIC DIS-SOLVED (UG/L AS AS)	BORON, DIS-SOLVED (UG/L AS B)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C)	CARBON, ORGANIC SUS-PENDED TOTAL (MG/L AS C)	PHENOLS (UG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)
OCT										
14...	--	.030	2	110	<10	5	24	--	0	--
NOV										
04...	.76	.140	2	150	20	6	6.7	.8	3	--
19...	--	--	--	--	--	--	--	--	--	--
DEC										
10...	.39	.030	1	150	10	8	10	--	0	--
JAN										
13...	.90	.030	2	100	<10	10	5.6	.8	1	--
23...	.54	--	--	110	30	--	--	--	--	--
FEB										
11...	.80	.060	2	110	<10	10	12	.4	0	--
MAR										
03...	1.6	.120	1	110	<10	8	9.3	1.3	0	--
11...	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--
APR										
15...	.37	.060	2	110	30	8	12	--	1	.00
MAY										
12...	--	--	--	--	--	--	--	--	--	--
12...	.62	.070	1	100	20	20	22	.5	1	--
JUN										
09...	.42	.170	1	110	<10	10	10	.4	3	--
23...	--	--	--	--	--	--	--	--	--	--
JUL										
07...	.87	.030	2	320	<10	4	3.4	.2	5	--
AUG										
04...	1.2	.020	2	120	12	6	4.0	.1	0	--
SEP										
15...	.61	<.010	1	100	11	3	2.7	.2	1	--
25...	--	--	--	--	--	--	--	--	--	--

DATE	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	BARIUM, DIS-SOLVED (UG/L AS BA)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COPPER, DIS-SOLVED (UG/L AS CU)	LEAD, DIS-SOLVED (UG/L AS PB)	LITHIUM DIS-SOLVED (UG/L AS LI)	MERCURY DIS-SOLVED (UG/L AS HG)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	STRON-TIUM, DIS-SOLVED (UG/L AS SR)	ZINC, DIS-SOLVED (UG/L AS ZN)
DEC												
10...	10	70	<1	10	3	2	9	.0	<10	1	2700	<3
JAN												
23...	--	--	--	--	--	--	--	--	<10	--	2500	--
APR												
15...	10	100	<1	10	3	3	10	.0	<10	1	2800	10
JUL												
07...	0	200	<1	10	3	2	20	.0	<10	1	3100	8

DATE	GROSS ALPHA, DIS-SOLVED (PCI/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (PCI/L AS U-NAT)	GROSS ALPHA, DIS-SOLVED (UG/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT)	GROSS BETA, DIS-SOLVED (PCI/L AS CS-137)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137)	GROSS BETA, DIS-SOLVED (PCI/L AS SR/YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/YT-90)	RADIUM 226, DIS-SOLVED, RADON METHOD (PCI/L)	URANIUM NATURAL DIS-SOLVED (UG/L AS U)	CYANIDE TOTAL (MG/L AS CN)
DEC											
10...	10	1.3	15	1.9	10	2.0	9.7	1.9	.08	2.6	.00
JAN											
23...	--	--	--	--	--	--	--	--	--	--	--
APR											
15...	12	2.5	<17	3.7	<8.5	3.2	<8.3	3.1	.07	2.6	.00
JUL											
07...	18	.3	<26	<.4	<10	<.4	<9.8	<.4	.09	2.3	.00

09306058 WILLOW CREEK NEAR RIO BLANCC, CO--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1230	---	---	1200	1190	1230	1250		---	1440	1420	1320
2	1240	---	---	1190	1260	1240	1250		1350	1450	1430	1320
3	1260	---	---	1180	1220	1250	1210		1370	1450	1440	1320
4	1250	1180	---	1180	1190	1230	1240		1400	1460	1440	1320
5	1250	1200	---	1160	1200	1250	1250		1390	1450	1430	1300
6	1250	1200	---	1210	1170	1210	1250		1380	1450	1330	1310
7	1250	1190	---	1230	1170	1210	1260		1380	1410	1360	1310
8	1250	1200	---	1240	1150	1240	1260		1390	1420	1330	1320
9	1240	1200	---	1240	1120	1240	1270		1400	1390	1310	1300
10	1250	1190	---	1230	1130	1150	1290		1410	1380	1320	1290
11	1250	1190	---	1240	1250	1240	1290		1410	1300	1320	1300
12	1250	---	---	1240	1140	1220	1300		1380	1390	1290	1310
13	1250	---	---	1200	1160	1250	1310		1380	1360	1300	1290
14	1250	---	---	1250	1160	---	1300		1400	1370	1300	1300
15	1280	---	---	1230	1130	---	1250		1360	1400	1310	1290
16	1260	---	1200	1230	1120	---	1190		1340	1390	---	1300
17	1270	---	1200	1220	1130	---	---		1370	1350	1340	1290
18	1260	---	1170	1220	1130	---	---		1370	1340	---	1300
19	1260	---	1180	1220	1140	1170	---		1380	1350	1290	1300
20	1250	---	1180	1220	1140	1190	---		1380	1350	---	1290
21	1250	---	1190	1230	1170	1190	---		1380	1260	1330	1280
22	1260	---	1200	1220	1180	1200	---		1460	1300	1300	1290
23	1260	---	1190	1210	1150	1220	---		1450	1310	1310	1310
24	1260	---	1180	1200	1150	1220	---		1420	1340	1300	1300
25	1260	---	1160	1200	1170	1240	---		1410	1360	1300	1310
26	1260	---	1150	1220	1180	1240	---		1390	1390	1290	1350
27	1250	---	1150	1160	1190	1240	---		1410	1420	1300	1350
28	1240	---	1160	1180	1210	1250	---		1400	1440	1340	1350
29	1230	---	1170	1170	---	1260	---		1420	1440	1310	1350
30	---	---	1200	1190	---	1220	---		1430	1430	---	1350
31	---	---	1200	1190	---	1250	---		---	1430	1310	---
MEAN	1250	1190	1180	1210	1170	1230	1260		1390	1390	1340	1310

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	15.0	6.0	---	---	---	---	6.0	.0	4.0	.0	8.0	1.0
2	13.0	5.0	---	---	---	---	7.0	.5	4.0	.0	8.5	1.0
3	12.5	4.5	---	---	---	---	6.5	1.0	2.0	.0	9.0	1.0
4	12.5	3.5	---	---	---	---	6.5	1.5	4.5	.0	11.5	1.5
5	13.0	4.0	9.5	2.0	---	---	4.0	2.0	2.5	.0	10.0	.0
6	13.0	4.0	8.5	2.5	---	---	4.5	.0	4.5	.0	4.0	.0
7	13.0	4.5	10.0	3.5	---	---	3.0	.0	3.0	.0	8.0	.5
8	13.0	4.0	9.5	4.0	---	---	3.0	.0	5.0	.0	10.5	.5
9	12.5	4.0	9.5	2.0	---	---	4.0	.0	6.0	1.0	13.0	.5
10	12.0	3.5	12.0	2.0	---	---	6.0	.0	2.0	.0	12.5	1.0
11	11.5	3.0	15.0	4.0	---	---	4.0	.0	.5	.0	8.0	.5
12	10.0	5.0	---	---	---	---	3.5	.0	5.5	.0	9.5	3.0
13	13.0	7.0	---	---	---	---	6.5	.0	8.0	.0	9.0	.0
14	11.0	6.0	---	---	---	---	3.5	.0	7.0	1.5	---	---
15	8.5	5.5	---	---	---	---	5.5	.0	9.5	2.0	---	---
16	7.5	3.5	---	---	6.5	2.0	4.5	.0	10.5	1.5	---	---
17	8.5	4.5	---	---	7.0	.5	5.5	1.0	8.0	2.0	---	---
18	9.0	4.5	---	---	7.0	1.0	6.5	.0	9.0	1.5	---	---
19	10.5	2.5	---	---	5.5	1.0	5.5	.0	9.0	1.0	12.5	5.0
20	11.0	2.5	---	---	6.0	.0	6.5	.0	4.0	.0	9.5	3.0
21	10.5	2.5	---	---	6.5	.5	5.0	.0	6.5	.0	6.5	2.0
22	10.5	3.5	---	---	6.5	2.5	6.0	.0	7.5	.0	11.5	1.0
23	8.0	1.0	---	---	6.0	1.5	9.0	.0	10.5	.0	13.0	2.0
24	8.5	.0	---	---	5.5	.0	6.0	.0	10.5	.0	9.0	3.0
25	9.0	.5	---	---	7.0	1.5	6.0	.0	10.0	.0	14.5	1.0
26	6.5	2.0	---	---	7.0	1.0	2.5	.0	6.5	1.0	14.5	4.0
27	6.0	3.0	---	---	7.0	1.0	4.0	.0	11.5	1.5	12.0	3.5
28	6.0	.5	---	---	6.5	1.5	12.0	2.0	11.0	.0	7.0	2.0
29	8.0	.0	---	---	5.5	.0	10.5	2.0	---	---	15.5	2.0
30	---	---	---	---	6.0	.0	9.0	.5	---	---	5.0	1.0
31	---	---	---	---	6.5	.0	2.0	.0	---	---	12.0	.0
MONTH	15.0	.0	15.0	2.0	7.0	.0	12.0	.0	11.5	.0	15.5	.0

09306058 WILLOW CREEK NEAR RIO BLANCO, CO--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	14.0	1.5	24.5	13.0	23.5	7.5	18.0	12.0	23.0	12.0	20.0	9.5
2	15.5	2.0	22.5	9.0	25.5	8.0	26.5	11.5	22.5	10.0	20.0	10.5
3	7.0	.5	14.5	6.0	17.5	9.5	26.0	9.0	24.0	10.0	20.5	11.0
4	10.0	1.0	22.0	4.5	25.0	8.0	28.0	8.5	23.5	10.5	19.0	9.0
5	14.0	.0	18.5	4.5	28.0	7.5	29.0	8.0	24.5	9.0	14.5	11.5
6	16.0	2.0	15.0	8.5	27.0	7.5	28.5	8.5	19.0	13.5	14.5	11.0
7	10.0	4.0	17.5	6.5	26.0	10.0	28.0	10.0	21.0	9.5	17.5	10.5
8	12.5	4.0	11.5	6.5	26.5	9.0	28.5	10.0	20.5	9.5	16.5	8.0
9	17.5	3.0	13.0	7.0	25.0	9.5	22.5	11.5	21.0	10.5	17.0	10.5
10	17.5	3.5	14.0	7.5	26.0	9.5	24.5	10.5	13.5	11.0	16.5	10.5
11	17.5	3.5	11.5	8.0	25.5	9.0	26.0	10.5	14.0	10.0	17.5	9.0
12	15.0	3.5	15.5	5.5	26.0	8.5	24.0	12.5	18.0	9.5	17.0	8.0
13	15.0	6.0	19.0	4.0	23.0	8.5	27.0	13.0	17.5	10.5	18.0	8.5
14	15.0	3.0	22.0	4.5	16.5	6.0	28.5	12.0	18.5	11.5	19.5	9.0
15	16.0	7.5	17.0	6.0	21.5	4.5	27.0	10.0	18.0	11.5	18.5	7.5
16	15.0	4.5	17.0	7.5	24.0	4.5	17.5	11.0	---	---	16.5	7.5
17	---	---	14.5	6.5	25.5	6.5	17.5	11.5	18.5	9.5	16.5	6.5
18	---	---	23.5	7.0	23.5	7.0	25.5	10.0	---	---	16.5	6.0
19	---	---	16.0	6.0	26.5	7.5	27.0	10.0	20.0	12.5	14.5	6.5
20	---	---	15.5	7.0	26.5	7.5	26.0	8.0	---	---	15.5	7.0
21	---	---	13.0	3.5	27.0	7.5	27.0	8.5	15.0	9.0	16.0	9.0
22	---	---	15.0	6.5	29.0	7.0	25.5	9.5	20.5	9.5	16.5	9.5
23	---	---	20.0	7.5	23.0	8.0	26.5	8.5	18.0	9.5	15.5	7.5
24	---	---	19.5	4.0	29.0	8.5	24.5	11.0	18.0	10.0	12.5	8.0
25	---	---	18.0	6.5	26.5	7.5	25.5	11.5	21.5	9.5	16.5	7.5
26	---	---	17.5	8.0	29.5	10.0	23.0	11.0	21.5	9.5	16.0	5.5
27	---	---	22.0	9.5	25.5	12.0	24.5	9.0	22.5	11.5	15.0	6.5
28	---	---	24.0	10.0	23.5	12.0	24.5	8.5	19.0	10.5	17.5	6.0
29	---	---	23.5	9.0	27.0	9.5	21.5	9.0	17.5	11.5	14.5	7.5
30	---	---	25.5	6.5	26.0	9.0	24.0	10.0	---	---	16.5	8.5
31	---	---	22.5	10.5	---	---	24.0	10.0	20.0	12.0	---	---
MONTH	17.5	.0	25.5	3.5	29.5	4.5	29.0	8.0	24.5	9.0	20.5	5.5

PH (STANDARD UNITS), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOHER		NOVEMRER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	8.6	8.4	---	---	---	---	8.5	8.4	8.5	8.5	8.6	8.5
2	8.6	8.5	---	---	---	---	8.5	8.4	8.5	8.4	8.6	8.6
3	8.6	8.5	---	---	---	---	8.5	8.4	8.6	8.5	8.6	8.4
4	8.6	8.5	8.2	8.0	---	---	8.5	8.4	8.6	8.5	8.6	8.5
5	8.6	8.4	8.2	8.1	---	---	8.6	8.4	8.6	8.5	8.6	8.3
6	8.5	8.4	8.3	8.1	---	---	8.6	8.5	8.5	8.5	8.4	8.3
7	8.5	8.4	8.2	8.1	---	---	8.6	8.5	8.5	8.4	8.4	8.3
8	8.5	8.4	8.3	8.1	---	---	8.6	8.5	8.5	8.5	8.4	8.3
9	8.4	8.3	8.3	8.2	---	---	8.6	8.5	8.5	8.5	8.4	8.3
10	8.4	8.3	8.2	8.1	---	---	8.5	8.5	8.5	8.5	8.4	8.3
11	8.4	8.2	8.2	8.1	---	---	8.5	8.5	8.6	8.3	8.4	8.3
12	8.3	8.2	---	---	---	---	8.6	8.5	8.6	8.5	8.4	8.3
13	8.3	8.2	---	---	---	---	8.6	8.5	8.6	8.5	8.3	8.3
14	8.3	8.2	---	---	---	---	8.6	8.5	8.6	8.5	---	---
15	8.3	8.2	---	---	---	---	8.5	8.5	8.6	8.5	---	---
16	8.3	8.1	---	---	8.5	8.4	8.6	8.5	8.6	8.5	---	---
17	8.2	8.1	---	---	8.4	8.2	8.5	8.5	8.6	8.5	---	---
18	8.2	8.0	---	---	8.3	8.2	8.6	8.5	8.6	8.5	---	---
19	8.1	8.0	---	---	8.3	8.2	8.6	8.5	8.6	8.5	8.4	8.3
20	8.1	8.0	---	---	8.4	8.3	8.6	8.5	8.6	8.5	8.4	8.3
21	8.1	7.9	---	---	8.4	8.3	8.6	8.5	8.6	8.6	8.4	8.3
22	8.2	8.0	---	---	8.4	8.3	8.6	8.5	8.6	8.6	8.4	8.3
23	8.2	8.1	---	---	8.4	8.3	8.6	8.4	8.6	8.5	8.4	8.3
24	8.2	8.1	---	---	8.4	8.3	8.6	8.5	8.6	8.5	8.4	8.3
25	8.2	8.1	---	---	8.4	8.3	8.6	8.5	8.6	8.5	8.3	8.2
26	8.3	8.1	---	---	8.3	8.3	8.6	8.5	8.6	8.6	8.3	8.2
27	8.3	8.2	---	---	8.3	8.3	8.5	8.3	8.6	8.5	8.4	8.2
28	8.3	8.2	---	---	8.3	8.3	8.5	8.3	8.6	8.5	8.3	8.3
29	8.3	8.2	---	---	8.3	8.2	8.6	8.3	---	---	8.3	8.2
30	---	---	---	---	8.6	8.2	8.6	8.4	---	---	8.3	8.2
31	---	---	---	---	8.5	8.4	8.5	8.5	---	---	8.3	8.2
MONTH	8.6	7.9	8.3	8.0	8.6	8.2	8.6	8.3	8.6	8.3	8.6	8.2

09306058 WILLOW CREEK NEAR RIO BLANCO, CO--Continued

PH (STANDARD UNITS), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	8.3	8.2	8.3	8.0	8.2	8.0	8.3	8.3	8.5	8.4	8.4	8.2
2	8.3	8.2	8.3	8.0	8.2	8.0	8.3	8.3	8.5	8.4	8.4	8.3
3	8.3	8.2	8.3	8.0	8.1	8.1	8.3	8.3	8.5	8.4	8.4	8.3
4	8.2	8.2	8.2	8.0	8.1	8.0	8.3	8.3	8.5	8.2	8.4	8.3
5	8.2	8.1	8.2	8.0	8.1	8.0	8.3	8.2	8.5	8.4	8.4	8.3
6	8.3	8.2	8.1	8.0	8.1	7.9	8.3	8.3	8.6	8.3	8.4	8.3
7	8.2	8.1	8.1	7.9	8.0	8.0	8.3	8.2	8.5	8.4	8.4	8.3
8	8.2	8.1	8.1	7.9	8.0	7.9	8.3	8.2	8.5	8.4	8.4	8.3
9	8.2	8.1	8.1	7.9	8.2	7.9	8.3	8.3	8.5	8.4	8.4	8.3
10	8.1	8.1	8.1	8.0	8.1	8.0	8.4	8.3	8.5	8.5	8.5	8.4
11	8.1	8.0	8.1	8.0	8.1	8.0	8.4	8.1	8.5	8.4	8.4	8.4
12	8.1	8.0	8.2	8.1	8.1	8.0	8.4	8.2	8.5	8.4	8.5	8.3
13	8.0	8.0	8.2	8.0	8.2	8.0	8.3	8.3	8.6	8.4	8.5	8.2
14	8.1	8.0	8.1	8.0	8.2	8.1	8.3	8.3	8.6	8.4	8.5	8.3
15	8.3	7.9	8.2	8.0	8.2	8.1	8.4	8.3	8.5	8.4	8.6	8.3
16	8.1	8.0	8.1	8.0	8.2	8.0	8.4	8.3	---	---	8.5	8.3
17	---	---	8.2	8.0	---	---	8.4	8.3	8.5	8.4	8.5	8.4
18	---	---	8.2	8.0	---	---	8.5	8.3	---	---	8.6	8.4
19	---	---	8.2	8.0	---	---	8.4	8.3	8.6	8.4	8.6	8.5
20	---	---	8.1	8.0	---	---	8.4	8.3	---	---	8.6	8.5
21	---	---	8.1	8.0	---	---	8.4	8.3	8.4	8.2	8.6	8.5
22	---	---	8.1	8.0	---	---	8.4	8.3	8.3	8.2	8.6	8.5
23	---	---	8.1	8.0	---	---	8.5	8.3	8.3	8.2	8.6	8.5
24	---	---	8.1	8.0	---	---	8.4	8.4	8.4	8.1	8.6	8.5
25	---	---	8.1	8.0	---	---	8.4	8.4	8.3	8.2	8.6	8.2
26	---	---	8.1	8.0	8.3	8.2	8.4	8.4	8.3	8.2	8.5	8.3
27	---	---	8.1	8.0	8.3	8.3	8.4	8.4	8.3	8.2	8.6	8.3
28	---	---	8.1	7.9	8.3	8.3	8.4	8.3	8.3	8.3	8.6	8.3
29	---	---	8.1	7.9	8.3	8.3	8.4	8.4	8.3	8.2	8.6	8.3
30	---	---	8.1	7.9	8.4	8.1	8.4	8.4	---	---	8.6	8.3
31	---	---	8.1	8.0	---	---	8.5	8.4	8.4	8.2	---	---
MONTH	8.3	7.9	8.3	7.9	8.4	7.9	8.5	8.1	8.6	8.1	8.6	8.2

OXYGEN, DISSOLVED (DO), MG/L, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	9.8	7.9	---	---	---	---	10.5	9.1	10.7	10.2	11.1	9.8
2	9.9	8.1	---	---	---	---	10.1	8.9	11.3	10.6	10.9	9.5
3	9.8	8.4	---	---	---	---	9.8	8.8	11.3	10.0	10.9	9.4
4	10.1	8.2	10.3	7.8	---	---	10.0	9.1	11.0	9.7	10.8	8.8
5	9.9	8.2	9.8	8.2	---	---	10.0	9.3	10.8	10.0	10.9	9.4
6	10.2	8.2	9.9	8.5	---	---	10.1	8.4	10.6	9.7	11.3	10.4
7	10.1	8.1	10.2	8.6	---	---	10.0	9.4	10.6	9.7	10.9	9.7
8	10.0	8.1	10.3	9.0	---	---	10.1	9.5	10.5	9.6	10.9	9.3
9	9.9	8.0	10.5	9.0	---	---	10.3	9.5	10.0	9.0	10.8	8.7
10	9.9	8.2	10.4	8.1	---	---	10.3	9.5	10.4	9.5	10.4	8.8
11	9.7	7.9	9.5	8.0	---	---	10.6	9.8	10.6	7.2	11.0	9.7
12	---	---	---	---	---	---	10.6	9.1	10.4	7.6	10.4	9.3
13	---	---	---	---	---	---	11.5	9.9	10.4	9.5	9.8	8.8
14	---	---	---	---	---	---	10.4	9.7	10.6	9.7	---	---
15	---	---	---	---	---	---	10.4	9.5	10.4	9.4	---	---
16	---	---	---	---	10.6	9.6	10.5	9.8	10.4	9.2	---	---
17	---	---	---	---	11.4	10.1	10.3	9.5	10.6	9.5	---	---
18	---	---	---	---	11.4	10.1	10.5	9.5	10.5	9.5	---	---
19	---	---	---	---	11.3	10.4	10.6	9.6	10.8	9.6	---	---
20	---	---	---	---	11.3	10.2	10.8	9.8	10.8	10.3	9.1	8.8
21	---	---	---	---	11.2	10.1	10.9	9.8	10.9	9.8	9.5	8.9
22	---	---	---	---	10.8	10.0	11.1	9.8	10.7	9.7	9.8	7.7
23	9.8	8.3	---	---	10.7	10.1	10.6	9.4	11.4	9.3	9.8	7.9
24	9.7	8.5	---	---	10.9	10.1	10.3	9.4	11.0	9.3	9.9	8.6
25	9.8	8.6	---	---	10.6	9.7	10.2	9.3	11.4	9.8	10.3	7.9
26	9.9	8.6	---	---	10.5	9.6	10.3	9.8	11.4	10.1	9.7	7.8
27	9.7	8.9	---	---	10.7	9.6	10.3	8.9	11.7	9.1	9.5	7.3
28	10.3	9.2	---	---	10.7	9.6	10.2	8.3	11.1	9.4	9.5	8.6
29	10.3	9.3	---	---	10.8	9.8	10.8	9.4	---	---	9.7	7.2
30	---	---	---	---	10.9	10.0	10.3	9.5	---	---	9.8	8.0
31	---	---	---	---	10.2	8.1	10.4	10.1	---	---	10.1	8.4
MONTH	10.3	7.9	10.5	7.8	11.4	8.1	11.5	8.3	11.7	7.2	11.3	7.2

09306058 WILLOW CREEK NEAR RIO BLANCO, CO--Continued

OXYGEN, DISSOLVED (DO), MG/L, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	10.1	8.2	8.7	6.3	8.7	6.6	9.3	8.1	8.7	7.2	8.3	6.5
2	10.0	8.4	9.7	6.6	8.7	6.1	9.3	7.0	8.7	7.0	8.2	6.5
3	10.1	8.6	9.2	6.8	---	---	9.8	7.2	8.4	6.7	8.0	6.5
4	9.9	8.6	9.4	7.7	---	---	9.8	6.9	8.0	6.4	8.4	6.6
5	10.2	7.5	9.2	7.7	---	---	9.8	6.5	8.4	6.2	8.0	7.2
6	10.1	7.9	8.4	7.3	---	---	9.4	6.8	---	---	8.2	7.2
7	10.0	8.9	9.2	7.9	---	---	8.9	6.4	---	---	8.4	6.6
8	9.9	8.5	9.2	7.2	---	---	---	---	---	---	8.8	7.2
9	10.2	8.4	9.9	8.2	---	---	---	---	---	---	8.5	7.2
10	10.3	8.6	10.0	8.3	9.0	7.1	---	---	---	---	8.6	7.6
11	10.3	7.8	9.1	7.8	9.3	7.2	---	---	---	---	8.9	7.2
12	10.2	8.7	9.8	8.0	9.5	7.7	---	---	---	---	9.1	7.4
13	10.2	8.3	9.5	8.3	9.8	8.0	---	---	---	---	9.0	6.7
14	10.3	8.3	9.6	8.1	10.2	8.9	---	---	---	---	9.0	7.6
15	12.0	8.7	9.9	8.1	10.8	8.5	9.1	7.3	---	---	9.3	7.6
16	11.2	9.6	10.0	8.2	10.9	8.4	9.6	8.0	---	---	9.3	7.6
17	---	---	9.9	8.1	10.3	8.1	9.5	8.1	---	---	9.6	7.7
18	---	---	9.9	7.4	10.2	8.0	9.8	7.2	---	---	9.6	7.6
19	---	---	9.9	8.0	10.0	7.7	9.8	7.0	---	---	9.5	7.8
20	---	---	9.5	8.2	10.1	7.7	10.0	7.0	---	---	9.5	7.7
21	---	---	9.7	8.4	10.0	7.3	9.6	6.6	---	---	9.2	7.4
22	---	---	9.3	8.2	9.8	6.9	9.0	6.4	---	---	9.2	7.7
23	---	---	9.2	7.9	9.4	7.6	8.9	6.9	---	---	9.6	7.7
24	---	---	9.4	7.7	9.3	6.7	9.3	7.3	---	---	9.5	8.1
25	---	---	9.2	8.0	9.3	6.9	9.2	7.2	---	---	9.7	8.5
26	---	---	9.0	8.0	8.7	6.1	9.2	7.7	---	---	---	---
27	---	---	8.8	7.1	8.5	6.9	9.6	7.3	---	---	---	---
28	---	---	8.6	6.5	8.3	6.7	9.6	7.7	---	---	---	---
29	---	---	8.2	6.3	8.7	6.6	9.6	7.7	---	---	---	---
30	---	---	8.5	5.9	9.2	6.8	9.1	7.3	---	---	---	---
31	---	---	7.9	6.4	---	---	9.2	7.3	8.1	6.3	---	---
MONTH	12.0	7.5	10.0	5.9	10.9	6.1	10.0	6.4	8.7	6.2	9.7	6.5

09306058 WILLOW CREEK NEAR RIO BLANCO, CO--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
		OCTOBER			NOVEMBER			DECEMBER	
1	4.3	---	.93	4.4	121	1.4	4.2	---	1.1
2	4.3	---	.93	4.3	128	1.5	4.2	---	1.1
3	4.3	83	.96	4.3	117	1.4	4.2	---	1.1
4	4.2	86	.98	4.3	120	1.4	4.2	---	1.1
5	4.2	75	.85	4.7	95	1.2	4.1	---	1.1
6	4.2	76	.86	5.0	101	1.4	4.1	---	1.1
7	4.3	67	.78	4.8	130	1.7	4.4	---	1.1
8	4.3	74	.86	4.7	112	1.4	4.4	---	1.1
9	4.3	50	.58	5.1	106	1.5	4.5	90	1.1
10	4.3	47	.55	5.0	93	1.3	4.4	---	1.1
11	4.3	59	.68	4.9	93	1.2	4.4	---	1.0
12	4.3	64	.74	4.9	81	1.1	4.4	---	.80
13	4.4	47	.56	4.9	133	2.3	4.0	---	.60
14	4.5	52	.63	4.9	88	1.2	4.0	---	.50
15	4.6	86	1.1	4.8	115	1.5	4.0	53	.57
16	4.5	47	.57	4.6	115	1.4	4.0	72	.78
17	4.4	63	.75	4.4	115	1.4	4.2	109	1.2
18	4.3	49	.57	4.2	---	1.1	4.4	103	1.2
19	4.3	51	.59	4.2	---	1.1	4.4	74	.88
20	4.3	65	.75	4.2	---	1.1	4.4	73	.87
21	4.2	83	.94	4.2	---	1.1	4.3	77	.89
22	4.2	127	1.4	4.2	---	1.1	4.3	75	.87
23	4.2	110	1.2	4.2	---	1.1	4.3	77	.89
24	4.2	137	1.6	4.2	---	1.1	4.2	94	1.1
25	4.1	108	1.2	4.2	---	1.1	4.3	90	1.0
26	4.1	100	1.1	4.2	---	1.1	4.2	74	.84
27	4.3	83	.96	4.2	---	1.1	4.2	77	.87
28	4.4	94	1.1	4.2	---	1.1	4.2	70	.79
29	4.5	117	1.4	4.2	---	1.1	4.1	60	.66
30	4.6	120	1.5	4.2	---	1.1	3.9	127	1.3
31	4.5	116	1.4	---	---	---	3.9	176	1.9
TOTAL	133.9	---	29.02	134.6	---	38.6	130.8	---	30.51
		JANUARY			FEBRUARY			MARCH	
1	3.9	160	1.7	3.0	160	1.3	1.7	145	.66
2	3.9	157	1.7	3.0	---	1.0	1.6	139	.60
3	4.0	137	1.5	3.0	---	1.0	1.9	118	.60
4	4.1	118	1.3	3.0	---	1.0	2.1	150	.85
5	4.1	116	1.3	2.9	---	1.0	1.9	145	.76
6	3.8	115	1.2	2.9	---	1.0	1.8	123	.62
7	2.5	203	1.4	2.9	---	1.0	2.2	168	1.0
8	2.5	203	1.4	2.8	---	1.0	1.9	262	1.8
9	2.5	203	1.4	2.6	---	1.0	2.0	257	1.6
10	2.5	196	1.3	2.5	---	1.0	2.2	308	1.9
11	2.5	196	1.3	2.4	161	1.0	2.0	---	1.0
12	2.5	196	1.3	2.6	322	2.3	2.1	---	.80
13	2.5	210	1.4	2.6	248	1.7	2.1	---	1.0
14	2.5	245	1.7	2.6	216	1.5	1.9	---	.80
15	2.5	227	1.5	2.8	251	1.9	2.0	---	.80
16	2.7	217	1.6	3.0	315	2.6	2.1	---	.80
17	2.7	186	1.4	2.9	238	1.9	2.0	---	.80
18	2.5	168	1.1	2.2	200	1.2	1.9	---	.80
19	2.5	189	1.3	2.0	190	1.0	1.9	195	1.0
20	2.5	245	1.7	2.2	175	1.0	2.0	192	1.0
21	2.5	196	1.3	2.2	200	1.2	2.2	257	1.5
22	2.5	189	1.3	2.1	230	1.3	2.1	228	1.3
23	2.5	203	1.4	2.1	230	1.3	2.2	247	1.5
24	3.0	179	1.4	2.0	194	1.0	2.5	363	2.5
25	3.1	146	1.2	1.9	181	.93	2.7	359	2.6
26	2.5	203	1.4	2.0	155	.84	2.6	293	2.1
27	3.0	125	1.0	2.0	179	.95	2.7	365	2.7
28	3.1	189	1.6	2.1	175	.99	2.8	296	2.2
29	3.5	237	2.2	---	---	---	2.7	285	2.1
30	3.2	213	1.8	---	---	---	3.1	276	2.3
31	3.1	196	1.6	---	---	---	3.3	644	6.3
TOTAL	91.2	---	44.7	70.3	---	34.91	68.2	---	46.29

09306058 WILLOW CREEK NEAR RIO BLANCO, CO--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
		APRIL			MAY			JUNE	
1	3.0	352	2.9	.25	20	.01	.70	163	.33
2	2.9	266	2.1	.27	30	.02	.58	155	.31
3	3.0	437	3.5	.48	51	.06	.39	45	.05
4	2.9	190	1.5	.46	48	.08	.48	73	.10
5	3.2	399	4.0	.72	20	.03	.48	137	.19
6	3.1	304	2.5	1.8	259	1.3	.42	51	.06
7	3.2	285	2.5	1.6	160	.69	.39	55	.06
8	3.0	304	2.5	1.6	82	.38	.50	78	.11
9	2.9	285	2.2	1.8	90	.44	.79	202	.47
10	2.8	285	2.2	1.8	42	.20	.80	109	.26
11	3.0	363	2.9	3.2	454	4.8	.70	63	.12
12	3.2	295	2.5	3.0	231	1.8	.69	44	.09
13	3.2	197	1.7	1.5	161	.66	.74	47	.11
14	3.0	204	1.7	.34	27	.02	1.0	48	.14
15	2.8	165	1.2	.25	7	.00	.93	32	.08
16	3.2	220	1.9	.25	10	.00	.71	33	.06
17	1.3	196	1.0	.25	15	.01	.49	80	.10
18	.27	---	.10	.22	9	.00	.68	61	.12
19	.35	---	.10	.20	15	.00	.59	98	.16
20	.39	---	.10	.21	4	.00	.28	81	.06
21	.31	68	.06	.21	4	.00	.30	65	.05
22	.25	52	.04	.19	8	.00	.41	172	.20
23	.22	35	.02	.18	8	.00	.37	138	.13
24	.27	55	.04	.18	10	.00	.34	98	.09
25	.62	238	.04	.25	45	.03	.34	65	.06
26	.29	86	.09	.21	23	.01	.33	33	.03
27	.21	56	.03	.20	30	.02	.34	26	.02
28	.28	56	.05	.23	23	.01	.36	20	.02
29	.25	35	.02	.26	23	.02	.35	20	.02
30	.23	35	.02	.25	23	.02	.36	46	.04
31	---	---	---	.29	15	.01	---	---	---
TOTAL	53.64	---	40.11	22.65	---	10.62	15.84	---	3.04
		JULY			AUGUST			SEPTEMBER	
1	.40	---	.04	.69	66	.09	1.4	3	.01
2	.38	---	.04	.76	65	.13	1.4	2	.00
3	.38	---	.04	.78	59	.12	1.4	1	.00
4	.31	---	.03	.76	59	.12	1.4	1	.00
5	.26	---	.03	2.0	206	2.3	1.4	1	.00
6	.24	---	.02	4.6	154	2.0	1.5	1	.00
7	.21	26	.01	2.0	60	.32	1.5	1	.00
8	.19	---	.01	1.8	---	.30	1.5	1	.00
9	.28	---	.02	1.7	---	.20	1.5	1	.00
10	.26	---	.02	1.8	---	.10	1.5	1	.00
11	.54	---	.60	1.8	---	.10	1.5	1	.00
12	.42	---	.04	1.8	---	.10	1.4	1	.00
13	.42	---	.04	1.9	24	.12	1.4	1	.00
14	.41	---	.04	1.8	14	.07	1.4	1	.00
15	.40	39	.04	1.8	10	.05	1.4	1	.00
16	.42	39	.04	1.8	8	.04	1.4	1	.00
17	.48	---	.09	1.7	8	.04	1.4	1	.00
18	.47	---	.10	1.6	9	.04	1.4	1	.00
19	.47	39	.05	1.6	9	.04	1.4	1	.00
20	.47	21	.03	1.6	8	.03	1.4	1	.00
21	.47	20	.03	1.6	7	.03	1.4	1	.00
22	.48	20	.03	1.7	16	.07	1.2	1	.00
23	.50	33	.04	1.6	9	.04	1.1	1	.00
24	.56	52	.08	1.7	9	.04	1.2	1	.00
25	.58	59	.09	1.6	15	.06	1.2	1	.00
26	.58	26	.04	1.5	9	.04	1.2	1	.00
27	.59	20	.03	1.5	2	.00	1.3	1	.00
28	.59	26	.04	1.5	4	.02	1.2	1	.00
29	.63	52	.09	1.5	9	.04	1.2	1	.00
30	.67	46	.08	1.6	9	.04	1.2	1	.00
31	.69	65	.12	1.5	4	.02	---	---	---
TOTAL	13.75	---	2.00	51.59	---	6.71	40.8	---	0.01
YEAR	827.27		287.12						

09306061 PICEANCE CREEK ABOVE HUNTER CREEK, NEAR RIO BLANCO, CO

LOCATION.--Lat 39°51'02", long 108°15'30", in SE1/4NE1/4 sec.27, T.2 S., R.97 W., Rio Blanco County, Hydrologic Unit 14050006, on left bank 20 ft (6 m) downstream from private bridge, 0.4 mi (0.6 km) upstream from Hunter Creek, and 18.7 mi (30.1 km) west of Rio Blanco.

DRAINAGE AREA.--309 mi² (800 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1974 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 6,214 ft (1,894 m), from topographic map.

REMARKS.--Records good. Diversions above station for irrigation above and below station.

AVERAGE DISCHARGE.--7 years, 16.9 ft³/s (0.479 m³/s), 12,240 acre-ft/yr (15.1 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 492 ft³/s (13.9 m³/s) Sept. 3, 1977, gage height, 4.19 ft (1.277 m); no flow Oct. 4, 5, 1977.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Sept. 3, 1977, exceeded all other floods at this location since at least 1939, from information by local resident.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 39 ft³/s (1.10 m³/s) at 0900 Nov. 12, gage height, 1.58 ft (0.482 m); maximum gage height, 2.01 ft (0.613 m) at 1800 Feb. 11 (ice jam); minimum daily discharge, 0.52 ft³/s (0.015 m³/s) Apr. 26.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.9	21	23	21	17	14	19	8.7	3.4	10	3.8	3.3
2	7.0	22	23	21	17	12	19	9.6	3.4	9.6	4.3	3.7
3	5.9	21	24	20	18	13	22	14	2.3	8.7	4.3	3.0
4	5.9	21	24	20	18	12	20	12	1.8	10	5.5	3.0
5	5.7	21	25	21	18	11	19	6.7	1.3	11	8.7	3.5
6	6.7	22	24	20	18	13	19	9.1	1.4	10	10	3.9
7	6.5	23	24	20	18	15	25	5.1	2.4	7.3	11	3.2
8	6.1	23	23	20	18	15	25	5.1	2.8	6.1	11	3.5
9	6.2	21	23	20	18	15	21	7.1	2.7	5.7	9.2	3.1
10	6.4	24	23	19	18	16	19	11	1.6	6.4	10	2.7
11	8.2	27	22	20	18	16	21	12	3.5	7.9	13	2.6
12	9.0	32	22	20	18	15	19	12	3.4	8.1	10	2.6
13	11	34	22	20	18	16	19	11	4.4	7.9	8.5	2.9
14	10	32	21	20	17	16	17	8.2	6.2	6.6	10	3.3
15	11	30	21	20	18	16	18	8.7	7.8	5.2	12	3.4
16	9.4	28	20	20	18	16	16	8.7	6.7	5.4	13	4.3
17	10	28	21	20	18	17	14	10	3.9	5.9	11	4.2
18	10	27	21	21	17	17	8.0	9.6	7.9	6.8	12	3.8
19	11	26	20	21	17	16	6.0	6.7	5.7	6.3	12	2.8
20	11	26	21	21	19	16	4.0	5.7	4.5	5.5	13	3.1
21	11	26	21	20	19	16	1.6	4.3	5.6	5.4	18	3.9
22	11	25	21	21	18	16	1.4	2.5	5.9	5.6	11	3.8
23	10	26	21	20	18	16	1.3	3.5	7.9	4.9	5.8	3.4
24	10	25	22	18	16	18	.88	3.7	10	5.3	5.3	3.6
25	11	25	22	18	17	16	.79	4.0	10	6.1	5.1	3.3
26	10	25	21	18	16	17	.52	4.0	8.8	8.0	4.6	3.1
27	15	25	21	18	15	21	1.5	3.5	8.0	5.0	4.9	3.4
28	21	24	21	17	15	21	9.5	3.4	12	4.6	4.6	3.7
29	21	24	21	17	---	19	9.1	3.1	12	4.2	4.3	3.6
30	21	23	21	17	---	21	8.4	2.6	10	4.3	5.7	3.6
31	21	---	21	17	---	21	---	3.0	---	3.8	4.2	---
TOTAL	326.9	757	680	606	490	499	384.99	218.6	168.1	207.6	269.8	101.1
MEAN	10.5	25.2	21.9	19.5	17.5	16.1	12.8	7.05	5.60	6.70	8.70	3.37
MAX	21	34	25	21	19	21	25	14	12	11	18	4.3
MIN	5.7	21	20	17	15	11	.52	2.5	1.3	3.8	3.8	2.6
AC-FT	648	1500	1350	1200	972	990	764	434	333	412	535	201

CAL YR 1980 TOTAL 9274.80 MEAN 25.3 MAX 133 MIN 4.6 AC-FT 18400
WTR YR 1981 TOTAL 4709.09 MEAN 12.9 MAX 34 MIN .52 AC-FT 9340

09306061 PICEANCE CREEK ABOVE HUNTER CREEK, NEAR RIO BLANCO, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--April 1974 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: October 1974 to current year.
WATER TEMPERATURE: October 1974 to current year.
SUSPENDED-SEDIMENT DISCHARGE: April 1974 to current year.

INSTRUMENTATION.--Automatic pumping sediment sampler since April 1974. Water-quality monitor since October 1974.

REMARKS.--Daily maximum and minimum specific-conductance data available in district office.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum 1,980 micromhos Jan. 15, 1976; minimum, 550 micromhos Apr. 5, 1978.
WATER TEMPERATURES: Maximum, 26.5°C June 26, 1977; minimum, freezing point on many days during winter months.
DISSOLVED OXYGEN: Maximum, 16.5 mg/L Mar. 21, 22, 1976; minimum, 3.1 mg/L Sept. 10, 1978.
pH: Maximum, 8.9 units Dec. 7, 1977; minimum, 7.4 units Apr. 18, 1979.
SEDIMENT CONCENTRATIONS: Maximum daily, 87,000 mg/L estimated Sept. 3, 1977; minimum daily, no flow Oct. 4, 5, 1977.
SEDIMENT LOADS: Maximum daily, 27,000 tons (24,000 t) estimated Sept. 3, 1977; minimum daily, no flow Oct. 4, 5, 1977.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 1,620 micromhos Apr. 24; minimum, 1,120 micromhos July 12.
WATER TEMPERATURES: Maximum, 26.0°C July 5, July 5; minimum, 0.0°C many days during January to April.
DISSOLVED OXYGEN: Maximum, 14.4 mg/L June 17; minimum, 5.1 mg/L June 1, Sept. 8.
pH: Maximum, 8.6 units a few days in Oct., Jan., Feb., Mar., July, and Aug.; minimum, 7.8 units several days in Sept.
SEDIMENT CONCENTRATIONS: Maximum daily, 1,560 mg/L Apr. 7; minimum daily, 10 mg/L April 23.
SEDIMENT LOADS: Maximum daily, 119 tons (107 t) Apr. 7; minimum daily, 0.03 ton (0.03 t) April 24-26.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	SPECIFIC CONDUCTANCE LAB (UMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	OXYGEN, DISSOLVED (MG/L)	BICARBONATE FET-FLD (MG/L AS HCO3)	ALKALINITY LAB (MG/L AS CACO3)	OXYGEN DEMAND, CHEMICAL (HIGH LEVEL) (MG/L)	COLIFORM, TOTAL, IMMED. (COLS. PER 100 ML)
OCT											
14...	1440	1.0	1430	1410	8.2	12.5	10.6	590	480	--	--
NOV											
04...	1400	21	1400	1460	7.9	10.5	10.1	610	500	--	--
DEC											
10...	1400	25	1340	1390	7.9	3.5	11.2	570	470	16	K170
JAN											
13...	1315	22	1450	1460	7.9	3.0	11.2	570	470	--	--
23...	1615	20	1300	1300	8.4	5.7	10.3	540	440	--	--
FEB											
11...	1410	29	1520	1440	8.4	.0	12.5	590	480	--	--
MAR											
03...	1325	15	1430	1380	8.4	7.0	9.9	570	470	--	--
APR											
15...	1545	18	1450	1440	8.4	17.0	8.9	600	490	63	80
MAY											
12...	1235	13	1450	1440	8.2	13.5	8.8	620	510	--	--
JUN											
09...	1230	3.3	1520	1520	8.3	21.0	9.1	680	560	--	--
JUL											
07...	1330	7.5	1480	1400	8.4	23.5	8.4	590	480	27	65
AUG											
04...	1300	5.4	1500	1480	8.4	20.0	11.4	610	500	--	--
SEP											
15...	1320	2.8	1500	1540	8.3	17.0	13.0	610	500	--	--

K BASED ON NON-IDEAL COLONY COUNT.

09306061 PICEANCE CREEK ABOVE HUNTER CREEK, NEAR RIO BLANCO, CO—Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	COLI-FORM, FECAL, 0.7 UM-MF (COLS./100 ML)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD-NESS (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	SULFIDE TOTAL (MG/L AS S)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)
OCT											
14...	--	--	450	69	68	170	3.5	3.5	--	330	13
NOV											
04...	--	--	430	70	63	180	3.8	3.3	--	280	12
DEC											
10...	K83	920	410	71	55	180	3.9	3.8	.0	260	11
JAN											
13...	--	--	400	65	57	200	4.4	2.2	--	290	11
23...	--	--	380	66	52	180	4.0	2.2	--	280	11
FEB											
11...	--	--	370	63	52	230	5.2	2.1	--	320	10
MAR											
03...	--	--	380	66	53	190	4.2	2.4	--	270	11
APR											
15...	67	88	410	63	61	200	4.3	2.8	.6	320	11
MAY											
12...	--	--	430	74	60	190	4.0	2.4	--	300	11
JUN											
09...	--	--	470	72	70	200	4.0	3.2	--	350	10
JUL											
07...	K8	K140	430	63	65	200	4.2	2.9	.4	330	12
AUG											
04...	--	--	430	65	66	190	4.6	3.0	--	310	11
SEP											
15...	--	--	490	76	74	170	3.8	3.7	--	350	16

DATE	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	BROMIDE DIS-SOLVED (MG/L AS BR)	IODIDE, DIS-SOLVED (MG/L AS I)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN DIS-SOLVED (MG/L AS N)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N)
OCT											
14...	.6	--	--	18	964	1.3	2.6	.22	.060	.84	.56
NOV											
04...	1.5	--	--	20	932	1.3	52.8	.28	.090	.78	.41
DEC											
10...	2.8	.00	--	19	890	1.2	60.1	.91	.010	1.5	.57
JAN											
13...	4.8	--	--	22	937	1.3	55.7	.95	.090	1.7	.69
23...	2.5	--	--	23	888	1.2	48.0	.79	.050	1.4	.60
FEB											
11...	4.3	--	--	20	997	1.4	78.1	.99	.140	1.9	.75
MAR											
03...	3.1	--	--	19	899	1.2	35.2	.85	.090	1.4	.50
APR											
15...	2.9	.00	--	19	981	1.3	47.7	.57	.060	1.4	.78
MAY											
12...	2.0	--	--	17	964	1.3	33.8	.38	.090	7.9	7.4
JUN											
09...	1.6	--	--	17	1060	1.4	9.4	.09	.110	.71	.51
JUL											
07...	1.5	.20	.060	17	985	1.3	19.9	.00	.100	.96	.86
AUG											
04...	1.6	--	--	17	965	1.3	14.1	.04	.150	1.0	.85
SEP											
15...	.8	--	--	19	1010	1.4	7.6	.13	.100	.74	.51

K BASED ON NON-IDEAL COLONY COUNT.

09306061 PICEANCE CREEK ABOVE HUNTER CREEK, NEAR RIO BLANCO, CO-Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, DISSOLVED (MG/L AS P)	ARSENIC DISSOLVED (UG/L AS AS)	BORON, DISSOLVED (UG/L AS B)	IRON, DISSOLVED (UG/L AS FE)	MANGANESE, DISSOLVED (UG/L AS MN)	CARBON, ORGANIC DISSOLVED (MG/L AS C)	CARBON, ORGANIC SUSPENDED TOTAL (MG/L AS C)	PHENOLS (UG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)
OCT 14...	.62	.040	--	3	180	20	50	24	.4	0	--
NOV 04...	.50	.110	--	3	210	20	40	5.2	.6	3	--
DEC 10...	.58	.050	--	3	230	20	40	14	.9	0	--
JAN 13...	.78	.050	--	3	260	10	20	20	2.4	1	--
23...	.65	--	.050	--	250	20	--	--	--	--	--
FEB 11...	.89	.190	--	4	310	10	30	9.9	2.0	0	--
MAR 03...	.59	.150	--	2	250	10	20	11	2.2	1	--
APR 15...	.84	.050	--	2	250	30	30	14	.2	3	.10
MAY 12...	7.5	.080	--	2	250	10	40	4.0	--	1	--
JUN 09...	.62	.120	--	2	250	10	90	4.1	.3	3	--
JUL 07...	.96	.040	--	3	250	10	30	4.8	--	0	--
AUG 04...	1.0	.030	--	3	260	11	28	4.2	.5	0	--
SEP 15...	.61	.010	--	2	240	19	100	4.0	.6	2	--

DATE	ALUMINUM, DISSOLVED (UG/L AS AL)	BARIUM, DISSOLVED (UG/L AS BA)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, DISSOLVED (UG/L AS CR)	COPPER, DISSOLVED (UG/L AS CU)	LEAD, DISSOLVED (UG/L AS PB)	LITHIUM DISSOLVED (UG/L AS LI)	MERCURY DISSOLVED (UG/L AS HG)	MOLYBDENUM, DISSOLVED (UG/L AS MO)	SELENIUM, DISSOLVED (UG/L AS SE)	STRONTIUM, DISSOLVED (UG/L AS SR)	ZINC, DISSOLVED (UG/L AS ZN)
NOV 04...	--	--	--	--	--	--	--	--	--	--	--	--
DEC 10...	10	100	<1	0	0	1	10	.0	18	1	2200	<3
JAN 23...	--	--	--	--	--	--	--	--	14	--	1900	--
FEB 11...	--	--	--	--	--	--	--	--	--	--	--	--
MAR 03...	--	--	--	--	--	--	--	--	--	--	--	--
APR 15...	10	200	<1	10	2	3	10	.0	<10	1	2400	10
MAY 12...	--	--	--	--	--	--	--	--	--	--	--	--
JUN 09...	--	--	--	--	--	--	--	--	--	--	--	--
JUL 07...	0	200	<1	10	2	2	20	.0	<10	1	2200	10

DATE	GROSS ALPHA, DISSOLVED (PCI/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (PCI/L AS U-NAT)	GROSS ALPHA, DISSOLVED (UG/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT)	GROSS BETA, DISSOLVED (PCI/L AS CS-137)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137)	GROSS BETA, DISSOLVED (PCI/L AS SR/YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/YT-90)	RADIUM 226, DISSOLVED, RADON METHOD (PCI/L)	URANIUM NATURAL DISSOLVED (UG/L AS U)	POTASSIUM 40 DISSOLVED (PCI/L AS K40)	CYANIDE TOTAL (MG/L AS CN)
NOV 04...	--	--	--	--	--	--	--	--	--	--	2.5	--
DEC 10...	<9.5	2.4	<14	3.6	<6.2	3.1	<6.0	3.0	.10	3.7	--	.08
JAN 23...	--	--	--	--	--	--	--	--	--	--	--	--
FEB 11...	--	--	--	--	--	--	--	--	--	--	1.6	--
MAR 03...	--	--	--	--	--	--	--	--	--	--	1.8	--
APR 15...	14	.3	<21	<.4	<11	.6	<10	.5	.09	4.2	2.1	.00
MAY 12...	--	--	--	--	--	--	--	--	--	--	1.8	--
JUN 09...	--	--	--	--	--	--	--	--	--	--	2.4	--
JUL 07...	16	.4	<24	<.6	<11	<.4	<10	<.4	.11	3.8	2.2	.00

09306061 PICEANCE CREEK ABOVE HUNTER CREEK, NEAR RIO BLANCO, CO-Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	1400	1300	1280	1350	1380	1290	1400	1470	1490	1490	1540
2	1280	1410	1300	1270	1430	1410	1280	1420	1470	1460	1500	1540
3	1280	1410	1300	1270	1400	1410	1220	1340	1480	1450	1490	1530
4	1300	1410	1290	1280	1370	1380	1230	1390	1500	1450	1470	1530
5	1300	1400	1290	1260	1390	1400	1280	1440	1510	1460	1460	1530
6	1320	1380	1290	1290	1360	1320	1260	1370	1500	1440	1400	1500
7	1330	1380	1290	1310	1340	1300	1220	1540	1500	1420	1470	1530
8	1320	1380	1290	1310	1360	1330	1200	1550	1500	1440	1460	1530
9	1340	1400	1290	1300	1370	1320	1250	1520	1510	1450	1420	1530
10	1350	1390	1320	1300	1340	1320	1290	1390	1510	1380	1420	1540
11	1320	1370	1300	1310	---	1310	1290	1360	1490	1370	1420	1550
12	1380	1340	1300	1320	---	1320	1340	1390	1460	1370	1400	1550
13	1400	1300	1300	1330	---	1310	1370	1400	1450	1430	1390	1540
14	1400	1310	1300	1300	---	1320	1430	1440	1440	1460	1390	1530
15	1410	1320	1290	1300	---	1310	1450	1430	1430	1440	1410	1540
16	1400	1320	1280	1300	---	1320	1450	1420	1440	1470	1430	1530
17	1420	1320	1280	1300	---	1280	---	1390	1500	1470	1420	1520
18	1420	1320	1270	1300	---	1310	---	1430	1440	1470	1410	1530
19	1410	1320	1280	1320	---	1310	---	1490	1450	1480	---	1560
20	1410	1320	1290	1310	---	1320	---	1510	1480	1490	---	1560
21	1400	1320	1280	1310	---	1300	1560	1560	1460	1500	---	1560
22	1400	1320	1270	1300	---	1320	1580	1580	1450	1510	---	1560
23	1400	1310	1260	1310	---	1310	1590	1580	1440	1510	---	1570
24	1420	1300	1280	1310	---	1300	1590	1560	1360	1520	---	1570
25	1400	1310	1280	1300	1300	1320	1580	1540	1350	1510	---	1580
26	1420	1310	1280	1320	1300	1310	1570	1540	1340	1530	---	1580
27	1430	1320	1270	1310	1350	1260	---	1530	1340	1510	---	1570
28	1420	1300	1280	1330	1350	1260	---	1520	1350	1510	---	1560
29	1410	1290	1280	1360	---	1290	---	1520	1370	1490	---	1560
30	1410	1290	1280	1360	---	1250	1390	1510	1470	1500	---	1550
31	1400	---	1280	1350	---	1290	---	1500	---	1500	1530	---
MEAN	1380	1340	1290	1310	1360	1320	1380	1470	1450	1470	1440	1550

WTR YR 1981 MEAN 1400 MAX 1590 MIN 1200

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	---	---	11.0	4.0	6.5	3.5	6.0	1.0	4.5	.0	8.5	3.0
2	15.0	6.0	10.0	4.5	6.5	3.5	7.0	2.0	2.5	.0	8.5	3.0
3	15.5	5.5	9.0	4.0	8.0	5.5	7.0	2.5	4.0	.0	9.0	2.5
4	15.5	5.5	11.5	4.5	8.5	5.5	7.0	3.0	4.5	.0	10.5	2.5
5	15.5	6.0	11.5	4.5	7.5	5.0	5.5	3.5	3.5	.0	10.0	2.0
6	16.0	6.0	10.5	5.0	8.5	4.0	5.0	1.5	4.5	.0	4.5	.0
7	15.5	6.0	11.5	6.0	6.0	4.0	4.0	.0	3.5	.0	7.5	.5
8	15.5	6.0	11.0	6.0	5.5	1.5	4.5	.0	4.5	.0	9.5	.0
9	15.0	6.0	11.0	5.0	4.0	1.0	4.0	.0	6.5	1.0	11.0	.5
10	14.0	5.5	10.5	4.5	4.0	.5	5.0	.0	3.0	.0	11.5	1.0
11	14.0	3.5	9.5	4.0	5.5	.5	4.0	.0	---	---	7.0	1.0
12	11.5	7.0	10.0	7.0	5.0	1.0	4.0	.0	---	---	9.5	4.0
13	15.5	9.0	8.5	5.5	4.0	.5	3.5	.0	---	---	9.0	1.5
14	12.5	8.0	6.5	4.0	4.5	.5	4.0	.0	---	---	11.5	2.0
15	10.0	6.5	6.0	2.0	6.5	1.5	5.0	.0	---	---	12.5	2.0
16	9.0	5.0	5.0	1.5	7.0	2.0	4.0	.0	---	---	10.5	2.0
17	9.5	6.5	5.0	1.0	7.5	2.5	5.5	2.0	---	---	9.0	2.5
18	10.5	6.5	5.0	.5	7.5	3.0	5.5	.5	---	---	11.5	2.0
19	12.0	5.0	6.0	1.5	6.0	3.0	5.5	.0	---	---	11.0	2.5
20	12.5	5.0	6.0	2.0	7.0	2.0	5.5	.5	---	---	9.0	4.5
21	13.0	5.0	6.0	1.5	7.5	2.5	5.5	.0	---	---	7.0	3.5
22	12.0	6.0	6.0	2.5	8.0	4.5	5.5	.0	---	---	11.0	1.5
23	10.0	3.5	7.0	3.5	7.0	3.5	6.0	.0	---	---	12.5	3.0
24	10.0	2.5	6.0	4.0	6.0	2.0	6.0	1.5	---	---	8.5	4.0
25	10.5	3.0	6.0	2.0	8.0	4.0	6.0	1.0	9.5	4.0	13.0	1.5
26	7.5	4.5	5.5	2.0	8.0	3.5	4.0	.5	6.0	2.0	13.0	4.0
27	7.0	5.0	4.0	.5	8.0	3.5	5.0	1.0	11.5	3.0	11.0	4.0
28	8.0	3.0	7.0	2.5	7.5	4.0	6.5	3.5	11.5	1.5	6.5	3.5
29	10.0	3.0	7.5	3.0	6.5	2.0	7.5	3.5	---	---	14.5	2.5
30	10.5	3.5	7.0	4.5	6.5	1.5	4.5	2.0	---	---	6.0	2.0
31	11.5	4.0	---	---	6.5	1.5	3.0	.5	---	---	11.0	.0
MONTH	16.0	2.5	11.5	.5	8.5	.5	7.5	.0	11.5	.0	14.5	.0

09306061 PICEANCE CREEK ABOVE HUNTER CREEK, NEAR RIO BLANCO, CO-Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	13.5	2.0	21.0	7.5	22.0	7.5	17.0	13.5	22.5	12.5	21.0	10.0
2	14.5	2.5	20.5	10.5	23.5	7.5	22.0	12.5	24.0	10.5	19.5	10.5
3	7.0	2.0	12.0	7.5	16.0	9.0	22.0	10.5	23.5	10.5	19.0	11.0
4	9.0	2.0	20.5	6.5	22.5	8.5	25.0	10.0	23.5	10.5	20.5	9.5
5	12.0	.0	18.0	6.5	24.0	7.5	26.0	10.5	24.0	10.0	14.5	11.5
6	15.0	2.5	17.5	8.0	24.0	8.0	25.5	11.5	22.5	11.5	16.0	11.5
7	8.5	4.5	17.0	5.0	23.0	10.0	25.0	11.5	23.0	10.0	18.5	11.5
8	10.5	4.0	12.0	5.0	24.5	9.0	25.5	12.5	22.0	10.0	18.5	9.0
9	16.5	3.5	17.5	6.0	24.0	9.5	21.0	12.0	22.5	11.0	17.5	11.0
10	17.0	4.5	19.0	5.0	25.0	9.5	23.0	12.0	15.0	11.0	15.0	11.0
11	16.5	4.5	14.0	7.0	24.0	9.0	23.5	12.5	15.0	10.5	19.0	10.0
12	15.0	4.0	15.0	5.5	23.5	8.5	22.0	13.5	20.5	11.0	17.5	9.0
13	16.0	6.0	19.0	4.5	21.0	8.0	21.5	14.0	19.5	11.0	18.5	9.5
14	13.5	3.5	20.0	6.0	16.0	6.5	26.0	13.5	17.0	10.5	18.5	10.0
15	17.0	7.0	16.5	8.0	20.0	5.0	25.0	11.5	17.0	10.5	19.0	9.0
16	15.0	5.0	15.5	8.5	21.5	5.5	17.5	12.0	22.5	10.5	18.0	8.5
17	---	---	13.5	8.0	21.5	7.5	17.5	12.0	22.0	10.0	17.5	7.5
18	---	---	20.5	8.0	21.5	7.5	22.5	11.0	21.0	9.5	18.0	7.5
19	---	---	15.0	8.0	22.5	7.5	23.5	11.0	---	---	18.0	8.0
20	---	---	13.5	7.5	22.5	8.5	24.0	9.5	---	---	17.0	9.0
21	14.5	7.5	12.5	5.5	22.5	9.0	24.0	10.0	---	---	16.5	10.5
22	16.0	4.5	13.0	7.0	24.5	8.5	23.5	10.5	---	---	17.5	10.5
23	19.5	3.0	17.0	7.5	19.5	9.0	23.0	10.0	---	---	16.5	9.0
24	18.0	4.5	17.0	6.0	24.5	10.0	21.5	11.5	---	---	14.0	10.0
25	19.0	5.5	16.0	7.0	23.5	10.0	24.5	12.0	---	---	15.0	9.0
26	19.5	4.5	15.0	8.0	25.5	12.0	22.0	12.0	---	---	15.0	7.5
27	---	---	18.5	9.0	22.5	13.0	23.5	9.5	---	---	16.0	7.5
28	---	---	20.5	8.5	21.5	13.0	23.0	9.5	---	---	16.0	8.0
29	---	---	20.5	8.5	22.5	11.5	21.0	10.0	---	---	14.0	8.5
30	21.0	7.5	24.0	7.0	25.0	11.0	23.0	11.5	---	---	15.5	9.5
31	---	---	19.5	9.5	---	---	23.5	11.0	---	---	---	---
MONTH	21.0	.0	24.0	4.5	25.5	5.0	26.0	9.5	24.0	9.5	21.0	7.5

PH (STANDARD UNITS), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	---	---	8.2	8.1	8.5	8.4	8.5	8.4	8.6	8.5	8.6	8.5
2	8.6	8.4	8.2	8.1	8.5	8.4	8.5	8.4	8.5	8.4	8.5	8.4
3	8.5	8.4	8.2	8.1	8.5	8.4	8.5	8.4	8.5	8.4	8.6	8.4
4	8.4	8.3	8.3	8.1	8.5	8.4	8.5	8.4	8.5	8.5	8.6	8.4
5	8.4	8.3	8.3	8.1	8.5	8.4	8.5	8.4	8.5	8.4	8.5	8.2
6	8.4	8.2	8.4	8.2	8.5	8.4	8.5	8.4	8.5	8.5	8.3	8.2
7	8.4	8.3	8.4	8.2	8.5	8.4	8.5	8.4	8.5	8.4	8.3	8.2
8	8.4	8.2	8.4	8.2	8.5	8.4	8.5	8.4	8.5	8.4	8.3	8.2
9	8.4	8.1	8.4	8.2	8.5	8.3	8.5	8.4	8.5	8.4	8.3	8.0
10	8.3	8.1	8.4	8.2	8.4	8.1	8.5	8.4	8.5	8.4	8.4	8.2
11	8.3	8.1	8.4	8.3	8.4	8.3	8.5	8.4	---	---	8.4	8.3
12	8.3	8.0	8.3	8.2	8.4	8.3	8.5	8.4	---	---	8.4	8.3
13	8.3	8.0	8.3	8.3	8.3	8.2	8.5	8.2	---	---	8.4	8.3
14	8.2	7.9	8.4	8.3	8.3	8.2	8.5	8.4	---	---	8.4	8.3
15	8.2	7.9	8.4	8.3	8.3	8.2	8.5	8.5	---	---	8.4	8.3
16	8.1	7.9	8.4	8.4	8.3	8.2	8.5	8.5	---	---	8.4	8.3
17	8.1	7.9	8.4	8.4	8.3	8.2	8.5	8.5	---	---	8.4	8.3
18	8.2	7.9	8.4	8.3	8.3	8.2	8.6	8.5	---	---	8.4	8.3
19	8.2	7.9	8.4	8.4	8.3	8.2	8.5	8.5	---	---	8.4	8.2
20	8.2	7.9	8.4	8.4	8.3	8.2	8.5	8.5	---	---	8.4	8.2
21	8.2	7.9	8.4	8.4	8.4	8.2	8.5	8.4	---	---	8.4	8.3
22	8.2	7.9	8.4	8.3	8.4	8.2	8.5	8.5	---	---	8.4	8.3
23	8.2	7.9	8.4	8.4	8.3	8.2	8.5	8.4	---	---	8.4	8.2
24	8.2	7.9	8.4	8.4	8.4	8.3	8.5	8.5	---	---	8.4	8.3
25	8.3	7.9	8.4	8.4	8.4	8.3	8.5	8.5	8.6	8.5	8.3	8.3
26	8.2	7.9	8.4	8.4	8.4	8.3	8.5	8.4	8.6	8.4	8.3	8.2
27	8.1	7.9	8.4	8.4	8.4	8.3	8.5	8.5	8.6	8.4	8.3	8.2
28	8.1	7.9	8.5	8.4	8.4	8.3	8.5	8.4	8.6	8.4	8.3	8.3
29	8.2	8.0	8.5	8.4	8.4	8.3	8.5	8.5	---	---	8.3	8.2
30	8.2	8.0	8.5	8.4	8.5	8.3	8.5	8.5	---	---	8.4	8.3
31	8.2	8.1	---	---	8.4	8.3	8.5	8.5	---	---	8.4	8.3
MONTH	8.6	7.9	8.5	8.1	8.5	8.1	8.6	8.2	8.6	8.4	8.6	8.0

09306061 PICEANCE CREEK ABOVE HUNTER CREEK, NEAR RIO BLANCO, CO—Continued

PH (STANDARD UNITS), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	8.3	8.2	8.5	8.4	8.3	8.0	8.3	8.1	8.4	8.1	8.3	7.9
2	8.3	8.2	8.5	8.4	8.4	8.1	8.4	8.1	8.4	8.1	8.3	7.9
3	8.3	8.2	8.5	8.3	8.3	8.0	8.3	8.1	8.4	8.1	8.3	7.9
4	8.3	8.2	8.4	8.3	8.3	7.9	8.3	8.1	8.5	8.1	8.4	7.9
5	8.4	8.2	8.3	8.3	8.3	8.0	8.4	8.2	8.5	8.2	8.2	7.9
6	8.3	8.2	8.3	8.2	8.3	8.1	8.5	8.2	8.4	8.2	8.3	7.8
7	8.3	8.1	8.2	8.0	8.3	8.1	8.4	8.1	8.5	8.3	8.3	7.9
8	8.3	8.2	8.2	8.0	8.3	8.1	8.5	8.2	8.6	8.2	8.4	7.8
9	8.3	8.3	8.3	8.0	8.3	8.1	8.5	8.1	8.5	8.2	8.4	7.8
10	8.3	8.3	8.3	8.1	8.3	8.1	8.5	8.1	8.4	8.2	8.3	7.8
11	8.4	8.2	8.2	8.1	8.3	8.1	8.5	8.1	8.5	8.2	8.4	7.8
12	8.3	8.3	8.2	8.1	8.4	8.1	8.5	8.0	8.5	8.2	8.4	7.8
13	8.3	8.2	8.2	8.1	8.4	8.1	8.5	8.1	8.5	8.1	8.4	7.8
14	8.3	8.2	8.3	8.1	8.3	8.1	8.6	8.1	8.5	8.1	8.4	7.8
15	8.4	8.2	8.3	8.2	8.3	8.0	8.5	8.1	8.5	8.2	8.4	7.9
16	8.3	8.2	8.3	8.2	8.4	8.1	8.4	8.1	8.6	8.1	8.3	7.9
17	---	---	8.3	8.1	8.4	8.1	8.4	8.1	8.5	8.2	8.3	7.9
18	---	---	8.3	8.1	8.4	8.2	8.4	8.0	8.5	8.2	8.3	7.9
19	---	---	8.3	8.2	8.4	8.2	8.4	8.1	---	---	8.3	7.9
20	---	---	8.2	8.1	8.4	8.2	8.4	8.1	---	---	8.3	7.9
21	8.5	8.1	8.1	8.0	8.4	8.2	8.4	8.1	---	---	8.3	7.9
22	8.4	8.0	8.0	7.9	8.4	8.2	8.4	8.1	---	---	8.3	7.9
23	8.3	8.0	8.0	7.9	8.4	8.2	8.4	8.0	---	---	8.3	7.9
24	8.3	8.0	8.1	7.9	8.4	8.2	8.4	8.1	---	---	8.1	7.9
25	8.3	8.0	8.1	7.9	8.4	8.2	8.4	8.0	---	---	8.2	7.8
26	8.3	8.0	8.1	8.0	8.4	8.2	8.4	8.1	---	---	8.2	7.8
27	---	---	8.2	7.9	8.4	8.2	8.4	8.1	---	---	8.2	7.8
28	---	---	8.2	8.0	8.3	8.2	8.4	8.1	---	---	8.3	7.8
29	---	---	8.3	8.0	8.4	8.2	8.4	8.1	---	---	8.2	7.8
30	8.5	8.4	8.3	8.0	8.4	8.2	8.4	8.1	---	---	8.3	7.8
31	---	---	8.3	8.0	---	---	8.4	8.1	8.2	8.0	---	---
MONTH	8.5	8.0	8.5	7.9	8.4	7.9	8.6	8.0	8.6	8.0	8.4	7.8

OXYGEN, DISSOLVED (DO), MG/L, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	---	---	10.2	7.9	---	---	11.1	9.0	10.5	9.7	10.5	9.2
2	10.6	8.5	10.1	8.1	---	---	10.9	8.6	10.6	10.0	10.4	9.0
3	10.6	7.9	10.3	8.1	---	---	10.7	8.6	10.6	9.9	10.5	8.9
4	10.5	7.8	10.3	7.9	---	---	10.3	8.3	10.6	9.6	10.4	8.6
5	10.8	7.6	10.4	7.8	---	---	10.2	8.6	10.6	9.8	11.9	9.6
6	11.0	7.3	10.4	8.2	---	---	11.2	8.9	10.5	9.6	12.0	10.6
7	11.3	7.1	10.4	8.0	---	---	11.2	9.6	10.6	9.7	11.7	10.1
8	11.6	6.9	10.3	8.2	10.3	9.4	10.9	9.7	10.6	9.4	11.9	9.7
9	11.8	7.0	10.6	8.2	10.9	9.8	10.9	9.7	10.0	8.8	11.9	9.2
10	12.0	7.0	10.7	8.0	11.2	9.9	11.0	9.5	10.5	9.4	11.8	9.2
11	11.5	7.6	10.2	8.2	10.9	9.6	11.1	9.8	---	---	11.8	10.1
12	11.0	6.6	9.7	8.0	10.9	9.6	10.9	9.7	---	---	11.0	9.6
13	10.9	5.9	9.2	8.4	11.0	9.8	11.2	9.7	---	---	11.5	9.4
14	10.6	5.9	9.8	9.1	10.9	9.7	10.6	9.2	---	---	11.4	8.9
15	10.5	6.3	10.4	9.2	10.9	9.3	10.7	9.5	---	---	11.3	8.7
16	11.1	6.7	10.4	9.5	10.8	9.1	10.9	9.6	---	---	11.2	8.9
17	11.2	6.8	10.6	9.5	10.6	8.9	10.7	9.4	---	---	10.9	9.3
18	11.4	6.8	10.5	9.4	10.6	8.9	11.0	9.4	---	---	11.0	8.8
19	11.4	6.6	10.9	9.2	10.8	9.2	10.9	9.4	---	---	10.8	8.5
20	11.6	6.6	10.4	9.1	11.0	9.1	10.7	9.4	---	---	10.0	8.9
21	13.2	7.1	10.3	9.1	10.8	9.0	11.0	9.6	---	---	10.4	9.3
22	13.1	7.7	9.8	8.9	10.7	8.7	11.0	9.5	---	---	10.8	8.5
23	13.1	8.0	9.7	8.6	10.8	9.1	11.0	9.4	---	---	10.5	8.2
24	13.2	7.9	9.3	8.8	11.3	9.2	10.6	9.2	---	---	10.3	9.0
25	12.9	7.6	10.1	8.7	10.9	8.8	10.7	9.4	9.9	8.8	10.7	8.0
26	12.5	7.5	9.9	8.8	11.1	8.8	10.7	9.8	10.5	9.5	10.0	7.8
27	11.0	7.7	9.9	8.8	11.1	8.7	10.7	9.5	10.5	8.6	9.4	7.9
28	10.3	8.6	---	---	10.9	8.8	10.1	8.7	10.7	8.6	9.9	9.1
29	10.4	8.3	---	---	11.2	9.1	9.9	8.7	---	---	10.1	7.5
30	10.3	8.0	---	---	11.1	9.0	10.0	9.4	---	---	10.1	8.8
31	10.2	8.0	---	---	11.0	8.9	10.5	9.8	---	---	10.7	8.1
MONTH	13.2	5.9	10.9	7.8	11.3	8.7	11.2	8.3	10.7	8.6	12.0	7.5

OXYGEN, DISSOLVED (DO), MG/L, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	10.2	7.7	10.0	5.7	12.7	5.1	9.4	6.1	---	---	11.6	5.6
2	10.0	7.4	9.9	6.2	---	---	9.8	6.1	---	---	11.6	5.4
3	9.9	8.4	9.0	6.7	---	---	9.7	6.3	---	---	11.7	5.8
4	10.1	8.7	9.4	6.1	---	---	9.7	5.6	---	---	11.5	5.2
5	10.6	7.8	9.2	6.2	---	---	9.1	5.3	---	---	10.2	6.2
6	10.0	7.2	8.9	6.3	---	---	9.2	5.5	---	---	11.2	5.8
7	9.0	8.2	9.0	6.9	---	---	10.0	5.2	---	---	11.3	5.4
8	9.4	7.9	9.3	7.3	---	---	---	---	---	---	10.3	5.1
9	9.6	7.0	9.7	6.6	---	---	---	---	---	---	---	---
10	9.4	6.9	9.2	6.6	12.3	6.3	---	---	---	---	---	---
11	9.4	7.0	8.6	7.4	11.3	6.8	---	---	---	---	---	---
12	9.5	7.4	9.1	7.3	13.3	7.0	---	---	---	---	---	---
13	9.2	7.2	9.2	6.4	13.9	7.4	---	---	---	---	---	---
14	9.8	7.3	8.8	6.4	13.3	7.7	---	---	---	---	---	---
15	9.4	7.2	8.6	6.9	12.6	7.5	---	---	---	---	---	---
16	9.9	7.5	8.6	7.2	13.3	7.0	---	---	---	---	---	---
17	---	---	8.7	7.5	14.4	6.8	---	---	---	---	12.5	7.1
18	---	---	8.8	6.7	12.2	6.6	---	---	---	---	12.2	6.9
19	---	---	8.8	7.6	12.4	6.8	---	---	---	---	12.5	6.8
20	---	---	8.9	7.6	12.9	6.5	---	---	---	---	11.7	6.4
21	11.7	6.9	8.9	7.4	12.4	6.6	---	---	---	---	11.6	6.2
22	12.7	6.4	8.5	7.1	12.2	6.5	---	---	---	---	11.5	6.2
23	12.5	5.6	8.2	6.4	10.9	6.8	---	---	---	---	11.2	6.3
24	11.8	5.8	8.3	6.4	10.6	6.5	---	---	---	---	10.3	6.4
25	12.2	6.0	8.6	6.3	10.6	7.0	---	---	---	---	11.0	6.5
26	11.7	5.8	8.8	6.1	10.7	6.0	---	---	---	---	10.9	6.7
27	---	---	9.9	5.8	10.7	6.1	---	---	---	---	10.8	6.6
28	---	---	10.9	5.4	9.3	6.0	---	---	---	---	10.8	6.5
29	---	---	12.1	5.6	9.8	5.8	---	---	---	---	10.8	6.5
30	9.7	5.9	12.2	5.3	10.0	5.8	---	---	---	---	10.9	6.5
31	---	---	12.4	5.4	---	---	---	---	11.0	6.2	---	---
MONTH	12.7	5.6	12.4	5.3	14.4	5.1	10.0	5.2	11.0	6.2	12.5	5.1
YEAR	14.4	5.1										

09306061 PICEANCE CREEK ABOVE HUNTER CREEK, NEAR RIO BLANCO, CO--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
		OCTOBER			NOVEMBER			DECEMBER	
1	7.9	48	1.0	21	---	4.5	23	---	9.3
2	7.0	43	.81	22	---	4.8	23	---	9.3
3	5.9	51	.81	21	---	4.5	24	---	7.8
4	5.9	70	1.1	21	76	4.3	24	---	7.8
5	5.7	72	1.1	21	70	4.0	25	---	8.1
6	6.7	77	1.4	22	90	5.3	24	---	7.8
7	6.5	72	1.3	23	122	7.6	24	---	7.8
8	6.1	66	1.1	23	112	7.0	23	120	7.5
9	6.2	61	1.0	21	105	6.0	23	255	16
10	6.4	53	.92	24	183	12	23	450	28
11	8.2	50	1.1	27	175	13	22	525	31
12	9.0	39	.95	32	409	37	22	528	31
13	11	61	1.8	34	249	23	22	161	9.6
14	10	46	1.2	32	---	22	21	172	9.8
15	11	68	2.2	30	---	19	21	101	5.7
16	9.4	37	.94	28	215	16	20	107	5.8
17	10	41	1.1	28	265	20	21	107	6.1
18	10	32	.86	27	245	18	21	115	6.5
19	11	31	.92	26	265	19	20	87	4.7
20	11	40	1.2	26	260	18	21	119	6.7
21	11	37	1.1	26	---	19	21	103	5.8
22	11	50	1.5	25	---	17	21	90	5.1
23	10	63	1.7	26	---	15	21	108	6.1
24	10	---	1.6	25	---	15	22	113	6.7
25	11	---	2.1	25	---	17	22	105	6.2
26	10	---	1.4	25	---	17	21	110	6.2
27	15	---	6.1	25	---	27	21	117	6.6
28	21	---	5.7	24	---	19	21	138	7.8
29	21	---	5.1	24	---	13	21	134	7.6
30	21	---	4.5	23	---	9.3	21	169	9.6
31	21	---	4.5	---	---	---	21	145	8.2
TOTAL	326.9	---	58.11	757	---	433.3	680	---	302.2
		JANUARY			FEBRUARY			MARCH	
1	21	127	7.2	17	170	7.8	14	169	6.4
2	21	131	7.4	17	480	22	12	133	4.3
3	20	96	5.2	18	440	21	13	145	5.1
4	20	110	5.9	18	410	20	12	143	4.6
5	21	119	6.7	18	350	17	11	159	4.7
6	20	127	6.9	18	255	12	13	215	8.3
7	20	180	9.7	18	342	17	15	274	12
8	20	199	11	18	255	12	15	240	9.7
9	20	184	9.9	18	249	12	15	250	10
10	19	185	10	18	240	12	16	269	12
11	20	205	11	18	260	13	16	289	12
12	20	203	11	18	380	18	15	239	9.7
13	20	172	9.3	18	295	14	16	220	9.5
14	20	155	8.4	17	194	8.9	16	240	10
15	20	201	11	18	198	9.6	16	254	11
16	20	241	13	18	213	10	16	270	12
17	20	159	8.6	18	190	9.2	17	300	14
18	21	176	9.7	17	185	8.5	17	225	10
19	21	184	11	17	200	9.2	16	230	9.9
20	21	198	10	19	276	14	16	220	9.5
21	20	227	12	19	248	13	16	190	8.2
22	21	198	11	18	301	15	16	188	8.1
23	20	222	12	18	205	10	16	200	8.6
24	18	190	9.2	16	163	7.0	18	225	11
25	18	157	7.6	17	304	14	16	215	9.3
26	18	---	11	16	319	14	17	195	9.0
27	18	---	7.3	15	200	8.1	21	650	40
28	17	180	8.3	15	219	8.9	21	330	19
29	17	177	8.1	---	---	---	19	300	15
30	17	165	7.6	---	---	---	21	340	19
31	17	205	9.4	---	---	---	21	413	24
TOTAL	606	---	286.4	490	---	357.2	499	---	355.9

09306061 PICEANCE CREEK ABOVE HUNTER CREEK, NEAR RIO BLANCO, CO--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
		APRIL			MAY			JUNE	
1	19	325	17	8.7	60	1.4	3.4	---	.50
2	19	290	15	9.6	100	2.6	3.4	78	.90
3	22	606	39	14	257	9.9	2.3	42	.27
4	20	---	16	12	136	5.7	1.8	26	.13
5	19	---	31	6.7	64	1.2	1.3	35	.12
6	19	300	15	9.1	107	2.6	1.4	48	.23
7	25	1560	119	5.1	86	1.2	2.4	58	.34
8	25	---	27	5.1	50	.69	2.8	103	.96
9	21	---	23	7.1	87	2.2	2.7	53	.41
10	19	---	15	11	100	3.0	1.6	35	.18
11	21	---	28	12	165	5.8	3.5	79	.81
12	19	---	15	12	116	3.8	3.4	53	.49
13	19	---	10	11	138	4.3	4.4	35	.42
14	17	---	4.6	8.2	80	1.8	6.2	43	.77
15	18	32	1.6	8.7	88	2.1	7.8	30	.66
16	16	70	3.0	8.7	82	1.9	6.7	45	.86
17	14	35	1.3	10	130	3.5	3.9	58	.60
18	8.0	20	.43	9.6	110	2.9	7.9	75	1.6
19	6.0	30	.49	6.7	90	1.6	5.7	59	.95
20	4.0	---	.27	5.7	63	.97	4.5	49	.60
21	1.6	21	.09	4.3	40	.46	5.6	49	.75
22	1.4	12	.05	2.5	20	.14	5.9	45	.69
23	1.3	10	.04	3.5	38	.36	7.9	77	1.7
24	.88	12	.03	3.7	27	.27	10	80	2.2
25	.79	15	.03	4.0	22	.24	10	61	1.6
26	.52	22	.03	4.0	28	.31	8.8	67	1.6
27	1.5	40	.16	3.5	30	.28	8.8	66	1.6
28	9.5	---	6.9	3.4	20	.18	12	---	2.4
29	9.1	---	3.2	3.1	25	.21	12	---	1.9
30	8.4	---	1.6	2.6	20	.14	10	64	1.7
31	---	---	---	3.0	20	.16	---	---	---
TOTAL	384.99	---	393.82	218.6	---	61.91	168.1	---	27.94
		JULY			AUGUST			SEPTEMBER	
1	10	75	2.0	3.8	167	1.7	3.3	41	.37
2	9.6	70	1.8	4.3	150	1.7	3.7	48	.48
3	8.7	83	1.9	4.3	57	.66	3.0	64	.52
4	10	97	2.7	5.5	61	1.0	3.0	82	.66
5	11	102	3.2	8.7	78	2.0	3.5	93	.88
6	10	105	3.0	18	109	5.7	3.9	72	.76
7	7.3	72	1.5	11	50	1.6	3.2	64	.55
8	6.1	39	.69	11	58	1.9	3.5	72	.68
9	5.7	70	1.1	9.2	85	2.3	3.1	65	.54
10	8.4	59	1.3	10	58	1.5	2.7	65	.47
11	7.9	44	.92	13	68	2.5	2.6	65	.46
12	8.1	75	1.5	10	49	1.4	2.6	67	.47
13	7.9	49	1.0	8.5	68	1.6	2.9	56	.44
14	6.6	40	.71	10	62	1.7	3.3	45	.40
15	5.2	38	.53	12	184	6.0	3.4	58	.57
16	5.4	57	.83	13	210	7.4	4.3	50	.61
17	5.9	53	.84	11	64	1.9	4.2	49	.56
18	6.8	65	1.2	12	80	2.6	3.8	50	.51
19	6.3	50	.85	12	95	3.1	2.8	46	.35
20	5.5	28	.42	13	116	4.1	3.1	46	.39
21	5.4	41	.60	14	51	1.9	3.9	64	.67
22	5.6	40	.60	11	87	2.7	3.8	55	.56
23	4.9	32	.42	5.8	95	1.5	3.4	52	.48
24	5.3	41	.59	5.3	82	1.2	3.4	52	.48
25	6.1	50	.82	5.1	85	1.2	3.3	44	.39
26	6.0	44	.71	4.6	91	1.1	3.1	56	.47
27	5.0	40	.54	4.9	92	1.2	3.4	76	.70
28	4.6	53	.82	4.6	116	1.5	3.7	50	.50
29	4.2	137	1.6	4.3	65	.75	3.6	62	.60
30	4.3	96	1.2	5.7	57	.88	3.6	62	.60
31	3.8	91	.93	4.2	38	.43	---	---	---
TOTAL	207.6	---	36.82	269.8	---	66.72	101.1	---	16.12
YEAR	4709.09		2396.44						

09306175 BLACK SULPHUR CREEK NEAR RIO BLANCO, CO

LOCATION.--Lat 39°52'16", long 108°17'18", in SE¼SW¼ sec.16, T.2 S., R.97 W., Rio Blanco County, Hydrologic Unit 14050006, on right bank 600 ft (183 m) upstream from mouth, 0.2 mi (0.3 km) west of Rock School, and 23.7 mi (38.1 km) northwest of Rio Blanco.

DRAINAGE AREA.--103 mi² (267 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--December 1974 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 6,130 ft (1,868 m), from topographic map.

REMARKS.--Records good. Diversions for irrigation of about 160 acres (648,000 m²) above station.

AVERAGE DISCHARGE.--6 years, 6.43 ft³/s (0.182 m³/s), 4,660 acre-ft/yr (5.75 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 255 ft³/s (7.22 m³/s) July 18, 1981, gage height, 3.56 ft (1.085 m), result of indirect measurement of peak flow; minimum daily, 0.20 ft³/s (0.006 m³/s) May 12, 13, 1978.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 255 ft³/s (7.22 m³/s) at 0015 July 18, gage height, 3.56 ft (1.085 m), result of indirect measurement of peak flow; minimum daily, 1.1 ft³/s (0.031 m³/s) July 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.5	8.0	4.9	5.8	6.1	5.7	5.5	3.5	1.8	3.1	1.8	1.4
2	5.6	8.0	4.8	6.3	4.7	6.1	5.6	3.1	2.2	2.1	1.7	1.5
3	5.7	7.5	4.9	6.7	5.6	5.8	5.8	5.3	2.1	1.3	1.7	1.5
4	5.7	7.5	4.6	7.6	6.1	5.8	5.7	3.9	1.8	1.2	1.7	1.4
5	5.7	7.4	4.3	8.1	5.2	5.8	5.5	2.5	1.7	1.1	1.9	1.4
6	5.8	7.2	3.9	7.9	5.2	6.2	5.8	1.9	1.8	1.2	1.8	1.4
7	9.1	7.5	3.8	11	4.8	5.9	5.7	1.4	1.8	1.3	1.8	1.5
8	10	7.4	4.2	7.7	5.1	5.1	5.6	1.4	1.6	1.3	1.6	1.4
9	7.6	6.9	4.2	5.2	5.7	5.5	5.6	1.3	1.6	1.3	1.5	1.6
10	7.2	6.9	4.2	5.3	5.0	5.9	5.5	1.2	1.6	1.5	1.5	1.6
11	7.4	6.8	4.2	5.0	4.4	5.6	5.8	1.2	1.5	9.2	1.5	1.5
12	7.6	6.8	4.3	4.8	6.5	5.2	6.1	1.2	1.5	7.3	2.1	1.6
13	6.9	8.3	3.9	5.3	5.3	5.2	6.1	1.2	1.6	3.8	1.5	1.7
14	7.2	7.4	3.7	5.5	5.2	5.3	5.9	1.2	1.7	3.5	1.4	1.8
15	12	6.9	3.1	5.9	5.2	4.9	5.6	1.2	1.6	3.0	1.6	1.9
16	13	6.3	3.9	5.8	4.9	4.9	4.3	1.2	1.6	2.9	1.7	1.8
17	13	6.2	3.7	5.8	5.1	4.7	4.4	1.3	1.6	12	1.7	1.7
18	12	6.1	3.7	5.6	5.4	4.5	4.4	1.4	1.6	8.8	1.7	1.7
19	12	6.3	3.8	5.5	5.5	4.2	3.8	1.3	1.6	3.3	1.5	1.7
20	12	6.3	3.9	5.5	5.8	4.2	3.4	1.4	1.5	2.9	1.5	1.7
21	12	5.8	4.3	5.2	5.2	4.2	2.6	1.6	1.6	2.9	1.4	1.7
22	12	5.8	5.0	5.4	5.2	4.3	2.3	1.7	1.6	2.7	1.4	1.7
23	11	5.6	5.3	5.3	5.3	4.0	1.7	1.7	1.5	2.5	1.4	1.6
24	11	5.4	5.0	5.8	5.4	4.3	1.5	1.7	1.4	2.7	1.4	1.5
25	11	5.5	4.7	5.8	5.3	4.1	1.5	1.5	1.5	2.7	1.4	1.5
26	11	5.7	4.5	5.1	5.6	4.3	1.9	1.5	1.4	2.7	1.4	1.5
27	12	5.3	4.3	5.7	6.0	4.3	2.1	1.6	1.5	2.9	1.4	1.5
28	10	5.5	4.2	5.8	6.1	4.9	2.7	1.7	2.8	2.2	1.3	1.5
29	9.0	5.2	4.3	6.0	---	4.9	3.8	1.6	2.3	1.8	1.3	1.5
30	9.0	4.9	4.7	6.2	---	5.3	3.6	1.6	2.6	1.8	1.3	1.5
31	8.5	---	5.2	5.9	---	4.9	---	1.7	---	1.8	1.3	---
TOTAL	287.5	196.4	133.5	188.5	150.9	156.0	129.8	56.0	52.0	98.8	48.2	47.3
MEAN	9.27	6.55	4.31	6.08	5.39	5.03	4.33	1.81	1.73	3.19	1.55	1.58
MAX	13	8.3	5.3	11	6.5	6.2	6.1	5.3	2.8	12	2.1	1.9
MIN	5.5	4.9	3.1	4.8	4.4	4.0	1.5	1.2	1.4	1.1	1.3	1.4
AC-FT	570	390	265	374	299	309	257	111	103	196	96	94

CAL YR 1980 TOTAL 3661.2 MEAN 10.0 MAX 51 MIN 1.7 AC-FT 7260
WTR YR 1981 TOTAL 1544.9 MEAN 4.23 MAX 13 MIN 1.1 AC-FT 3060

09306175 BLACK SULPHUR CREEK NEAR RIO BLANCO, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--January 1975 to September 1981 (discontinued).

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: April 1975 to September 1981 (discontinued).
WATER TEMPERATURE: April 1975 to September 1981 (discontinued).
SUSPENDED-SEDIMENT DISCHARGE: October 1975 to September 1981 (discontinued).

INSTRUMENTATION.--Water-quality monitor since April 1975. Pumping sediment sampler since October 1975.

REMARKS.--Interuptions in record due to instrument malfunctions. Daily maximum and minimum specific-conductance data available in district office. Daily sediment for April through September 1980 is published in this report.

EXTREMES FOR PERIOD OF RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 2,920 micromhos Oct. 16, 1975; minimum, 200 micromhos July 17, 1981.
WATER TEMPERATURES: Maximum, 24.0°C July 30, 1976; minimum, 0.0°C many days during winter months some years.
SEDIMENT CONCENTRATIONS: Maximum daily, 19,800 mg/L Aug. 5, 1978; minimum daily, 7 mg/L estimated Oct. 1, 1979.
SEDIMENT LOADS: Maximum daily, 775 tons (703 t) May 14, 1980; minimum daily, 0.01 ton (0.01 t) May 12-14, 1978.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 1,910 micromhos May 3, July 11; minimum, 200 micromhos July 17.
WATER TEMPERATURES: Maximum, 23.0°C June 29, 30, July 22, 25; minimum, 0.0°C Feb. 2, 3, Mar. 31.
SEDIMENT CONCENTRATIONS: Maximum, 2,620 mg/L July 11; minimum 11 mg/L May 12.
SEDIMENT LOADS: Maximum, 697 tons (632 t) July 17; minimum, 0.04 ton (0.04 t) May 12.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	SPECIFIC CONDUCTANCE LAB (UMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	OXYGEN, DISSOLVED (MG/L)	NITROGEN DISSOLVED (MG/L AS N)	HARDNESS (MG/L AS CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)
OCT											
14...	1535	7.6	1650	1780	8.0	12.5	8.8	--	620	92	93
NOV											
06...	1020	7.2	1490	1505	7.9	5.5	10.8	--	590	90	88
DEC											
10...	1430	E4.2	1520	1560	7.9	1.4	11.7	--	580	92	85
JAN											
13...	1400	7.2	1450	1530	8.0	1.0	12.0	--	570	91	82
23...	1650	7.2	1460	1460	--	5.5	10.2	1.0	570	88	85
FEB											
11...	1445	1.5	1600	1600	8.3	.5	12.1	--	630	98	93
MAR											
03...	1245	5.6	1490	1490	8.2	7.0	10.6	--	580	89	86
APR											
15...	1625	5.3	1400	1430	8.2	16.0	7.9	--	540	80	81
MAY											
12...	1310	1.3	1800	1690	7.8	15.0	8.0	--	710	100	110
JUN											
09...	1300	1.6	1750	1700	8.0	20.0	8.1	--	660	98	100
JUL											
07...	1445	1.3	1900	1790	8.1	21.5	9.6	--	710	99	110
AUG											
04...	1330	1.8	1690	1680	8.1	19.0	9.8	--	640	91	99
SEP											
15...	1400	2.2	1740	1720	8.0	16.0	10.0	--	660	96	100

E ESTIMATED.

09306175 BLACK SULPHUR CREEK NEAR RIO BLANCO, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	ALKALINITY LAB (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, DISSOLVED (TONS PER DAY)
OCT											
14...	180	3.2	2.6	460	470	13	.5	19	1150	1.6	23.6
NOV											
06...	140	2.5	1.8	430	400	10	.4	18	1010	1.4	19.6
DEC											
10...	140	2.5	3.0	450	400	9.7	.4	18	1030	1.4	--
JAN											
13...	140	2.6	.1	440	400	11	.5	18	1020	1.4	19.8
23...	150	2.7	1.9	420	410	12	.3	19	1020	1.4	19.8
FEB											
11...	150	2.6	1.8	440	470	11	.4	19	1120	1.5	4.5
MAR											
03...	140	2.5	1.9	420	410	13	.3	17	1020	1.4	15.4
APR											
15...	140	2.6	2.2	400	410	13	.5	17	990	1.4	14.2
MAY											
12...	170	2.8	2.3	510	560	11	.4	18	1280	1.7	4.5
JUN											
09...	170	2.9	2.3	370	570	10	.5	17	1200	1.6	5.2
JUL											
07...	190	3.1	2.3	490	610	11	.5	19	1340	1.8	4.7
AUG											
04...	160	3.2	2.3	470	510	11	.5	17	1180	1.6	5.7
SEP											
15...	170	3.3	3.0	500	510	18	.5	20	1220	1.7	7.3

DATE	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRATE DISSOLVED (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NITRITE DISSOLVED (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)
OCT											
14...	.18	--	--	--	.21	.20	--	--	.02	.38	--
NOV											
06...	.43	--	.000	--	.43	.40	.090	--	.38	.47	--
DEC											
10...	.60	--	.010	--	.61	.61	.050	--	1.2	1.20	--
JAN											
13...	.64	.63	.010	.010	.65	.64	.000	.030	1.0	1.00	--
23...	--	--	--	--	--	.44	--	.030	--	--	.60
FEB											
11...	.65	--	.010	--	.66	.65	.050	--	1.4	1.40	--
MAR											
03...	.39	--	.010	--	.40	.39	.050	--	.74	.79	--
APR											
15...	.18	--	.010	--	.19	.19	.030	--	.88	.91	--
MAY											
12...	.28	--	.010	--	.29	.28	.090	--	.86	.95	--
JUN											
09...	.10	--	.000	--	.10	.13	.090	--	1.0	1.10	--
JUL											
07...	.10	--	.010	--	.11	.01	.110	--	.76	.87	--
AUG											
04...	--	--	<.020	--	<.10	.04	.160	--	1.1	1.30	--
SEP											
15...	.10	--	.000	--	.10	.11	.100	--	.59	.69	--

09306175 BLACK SULPHUR CREEK NEAR RIO BLANCO, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	NITRO-GEN, TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	PHOS-PHORUS, ORTHO, TOTAL (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	ARSENIC DIS-SOLVED (UG/L AS AS)	BARIUM, DIS-SOLVED (UG/L AS BA)	BORON, DIS-SOLVED (UG/L AS B)	CADMIUM DIS-SOLVED (UG/L AS CD)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, DIS-SOLVED (UG/L AS FE)
OCT											
14...	.59	.050	--	--	.000	2	70	120	<1	2	10
NOV											
06...	.90	.080	--	.010	.000	2	60	140	<1	3	<10
DEC											
10...	1.8	.090	--	.020	.010	2	60	140	<1	2	10
JAN											
13...	1.7	.040	--	.020	.000	2	60	120	<1	2	10
23...	--	--	.040	--	--	--	--	120	--	--	10
FEB											
11...	2.1	.080	--	.010	.000	3	70	130	<1	3	20
MAR											
03...	1.2	.070	--	.010	.000	2	70	120	<1	2	<10
APR											
15...	1.1	.090	--	.050	.000	2	100	120	<1	2	10
MAY											
12...	1.2	.050	--	.010	.010	2	50	150	<1	2	20
JUN											
09...	1.2	.050	--	.040	.000	3	200	160	<1	3	20
JUL											
07...	.98	.040	--	.030	.050	2	200	340	<1	3	20
AUG											
04...	--	.020	--	<.010	.000	3	100	130	<1	2	13
SEP											
15...	.79	.010	--	.010	.000	2	65	170	<1	1	20

DATE	LEAD, DIS-SOLVED (UG/L AS PB)	LITHIUM DIS-SOLVED (UG/L AS LI)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY DIS-SOLVED (UG/L AS HG)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	STRON-TIUM, DIS-SOLVED (UG/L AS SR)	ZINC, DIS-SOLVED (UG/L AS ZN)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	PHENOLS (UG/L)
OCT										
14...	0	20	50	.0	--	1	5000	9	.00	--
NOV										
06...	2	10	30	.0	--	1	4300	8	.10	--
DEC										
10...	0	20	50	.0	--	0	4400	<3	.00	2
JAN										
13...	0	20	40	.0	--	1	4300	10	.30	--
23...	--	--	--	--	16	--	4300	--	--	--
FEB										
11...	2	20	40	.0	--	1	4700	40	.00	--
MAR										
03...	1	20	30	.0	--	1	4400	10	.00	--
APR										
15...	2	10	40	.1	--	1	4000	10	.00	2
MAY										
12...	1	20	70	.0	--	1	5400	20	.00	--
JUN										
09...	0	20	40	.0	--	1	5400	40	.00	--
JUL										
07...	2	30	50	.0	--	1	5500	10	.00	0
AUG										
04...	1	27	53	.0	--	1	4900	14	.00	--
SEP										
15...	1	20	55	.0	--	1	5500	15	.00	--

09306175 BLACK SULPHUR CREEK NEAR RIO BLANCO, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	BARIUM, TOTAL RECOVERABLE (UG/L AS BA)	BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	COBALT, TOTAL RECOVERABLE (UG/L AS CO)	COPPER, TOTAL RECOVERABLE (UG/L AS CU)	IRON, TOTAL RECOVERABLE (UG/L AS FE)
APR										
15...	1625	460	2	100	0	0	20	0	5	1000

DATE	LEAD, TOTAL RECOVERABLE (UG/L AS PB)	LITHIUM TOTAL RECOVERABLE (UG/L AS LI)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	MERCURY TOTAL RECOVERABLE (UG/L AS HG)	MOLYBDENUM, TOTAL RECOVERABLE (UG/L AS MO)	NICKEL, TOTAL RECOVERABLE (UG/L AS NI)	SELENIUM, TOTAL (UG/L AS SE)	SILVER, TOTAL RECOVERABLE (UG/L AS AG)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN)
APR									
15...	1	10	90	.1	79	5	1	0	20

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY)
MAR				
18...	1244	4.2	143	1.6
APR				
01...	1106	5.5	247	3.7
15...	0954	6.0	540	8.7

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1670	1400	---	1420	1440	1490	1550	1600	1760	1590	1670	1740
2	1630	1420	---	1420	1530	1490	1520	1630	1750	1690	1670	1750
3	1640	1430	---	1420	1490	1490	1480	1710	1750	1770	1670	1750
4	1630	1460	---	1420	1470	1490	1490	1710	1760	1770	1670	1750
5	1620	1470	---	1400	1490	1510	1480	1730	1760	1790	1640	1740
6	1600	1470	---	1420	1460	1470	1490	1750	1760	1780	1620	1750
7	1590	1470	---	1490	1490	1480	1510	1780	1750	1740	1590	1750
8	1580	1470	---	1430	1470	1520	1510	1760	1750	1760	1630	1750
9	1570	1460	---	1460	1450	1520	1470	1770	1750	1760	1690	1730
10	1520	1460	---	1440	1470	1530	---	1780	1750	1760	1650	1750
11	1540	1450	---	1460	1560	1530	---	1770	1750	1640	1640	1760
12	1540	1440	---	1460	1410	1530	---	1770	1750	---	1580	1750
13	1580	1510	---	1460	1480	1530	---	1770	1740	---	1640	1750
14	1610	1450	---	1460	1480	1530	---	1770	1730	---	1740	1760
15	1580	1440	---	1430	1480	1540	1430	1770	1730	---	1740	1760
16	1430	1440	---	1440	1490	1540	1410	1770	1720	---	1740	1760
17	1410	1450	---	1430	1480	1530	1400	1760	1720	1200	1750	1760
18	1480	1440	1460	1440	1480	1520	1380	1770	1720	---	1750	1760
19	1480	1430	1450	1450	1470	1500	1420	1790	1730	---	1770	1760
20	1490	1410	1450	1440	1470	1490	1490	1780	1730	---	1770	1760
21	1460	---	1450	1450	1490	1490	1640	1760	1730	1590	1760	1760
22	1470	---	1450	1450	1490	1500	1630	1750	1720	1600	1760	1770
23	1470	---	1430	1450	1480	1500	1700	1750	1720	1590	1760	1770
24	1470	---	1430	1420	1470	1500	1720	1760	1720	1580	1750	1770
25	1460	---	1440	1430	1470	1520	1750	1770	1720	1580	1750	1770
26	1460	---	1430	1470	1460	1510	1760	1770	1730	1570	1750	1770
27	1450	---	1430	1430	1480	1500	1750	1770	1720	1600	1750	1770
28	1460	---	1430	1430	1480	1500	1700	1750	1550	1670	1740	1780
29	1460	---	1430	1430	---	1510	1580	1770	1620	1600	1740	1780
30	1430	---	1430	1440	---	1470	1570	1770	1650	1680	1740	1770
31	1410	---	1420	1440	---	1550	---	1750	---	1680	1760	---
MEAN	1520	1450	1440	1440	1480	1510	1550	1750	1720	1660	1710	1760

WTR YR 1981 MEAN 1590 MAX 1790 MIN 1200

09306175 BLACK SULPHER CREEK NEAR RIO BLANCO, CO-Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	14.5	8.0	10.5	3.0	---	---	6.0	.5	4.0	.5	7.5	1.5
2	13.5	8.5	9.5	3.5	---	---	7.0	1.0	2.0	.0	8.0	1.5
3	13.5	7.5	8.5	3.0	---	---	7.0	1.5	2.5	.0	8.0	2.0
4	14.0	7.5	10.5	3.5	---	---	6.5	2.0	5.0	.5	11.0	3.0
5	13.5	7.5	11.0	3.5	---	---	4.5	2.5	3.5	.5	11.0	1.0
6	14.0	7.5	10.0	3.5	---	---	5.0	.5	4.5	.5	5.0	.5
7	14.0	7.5	11.0	4.5	---	---	3.5	.5	3.5	.5	8.5	2.0
8	14.0	6.5	11.0	5.0	---	---	3.5	.5	6.0	.5	11.0	.5
9	14.0	6.5	10.0	3.0	---	---	4.5	.5	7.0	1.0	12.0	1.0
10	13.5	6.0	10.0	3.0	---	---	5.5	.5	3.5	.5	11.5	1.5
11	13.5	5.5	9.5	2.5	---	---	4.5	.5	2.0	.5	8.0	1.5
12	11.0	6.5	9.0	5.5	---	---	4.5	.5	7.5	.5	9.5	3.5
13	14.5	8.5	6.5	4.0	---	---	3.5	.5	8.5	.5	8.0	1.5
14	12.5	7.5	6.0	2.0	---	---	4.0	.5	7.5	1.5	13.0	1.5
15	10.0	7.0	6.0	1.0	---	---	6.0	.5	10.0	3.0	13.5	2.0
16	9.5	5.5	5.0	.5	---	---	5.0	.5	10.5	2.0	11.0	1.5
17	9.5	6.5	5.0	.5	---	---	5.5	1.5	8.0	2.5	9.5	3.0
18	10.5	6.0	5.0	.5	---	---	6.0	.5	9.5	2.0	13.0	2.0
19	12.0	4.0	6.0	.5	6.5	1.5	5.5	.5	9.5	1.5	12.0	2.5
20	12.0	4.0	6.0	.5	6.5	.5	6.5	.5	5.0	1.0	8.5	4.5
21	12.0	4.0	6.0	.5	7.0	1.5	5.5	.5	8.5	.5	7.0	3.5
22	11.5	5.0	5.5	1.0	7.5	4.0	6.0	.5	10.0	.5	11.0	2.0
23	9.5	2.5	6.5	2.0	7.0	3.0	6.0	.5	11.0	.5	13.0	3.0
24	9.5	1.5	5.0	1.5	6.0	1.0	6.0	.5	11.0	.5	11.0	4.0
25	10.0	2.0	5.5	.5	7.5	3.0	6.0	.5	10.5	.5	13.5	1.5
26	7.5	3.5	5.5	.5	7.5	2.5	3.5	.5	7.5	2.0	13.5	3.5
27	6.5	3.5	4.0	.5	7.5	2.0	4.5	.5	11.5	2.0	11.5	4.0
28	8.0	2.0	6.5	1.0	7.5	3.0	7.5	3.0	11.0	1.0	7.0	3.0
29	9.5	1.5	6.5	1.5	6.5	.5	7.0	3.0	---	---	15.0	2.5
30	10.0	2.5	6.5	2.0	6.5	.5	4.0	1.5	---	---	5.5	1.5
31	10.5	3.0	---	---	6.5	.5	4.0	.5	---	---	11.5	.0
MONTH	14.5	1.5	11.0	.5	7.5	.5	7.5	.5	11.5	.0	15.0	.0

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	14.0	1.5	17.5	5.5	20.0	11.0	16.0	13.0	20.5	12.5	16.5	9.5
2	15.0	2.5	17.5	8.5	21.5	7.5	20.5	10.5	22.0	9.5	15.0	9.0
3	8.0	2.5	11.0	6.5	14.5	9.0	19.0	9.0	21.5	10.0	16.5	9.5
4	11.0	2.0	18.0	6.0	19.5	8.5	21.5	8.5	22.0	10.0	16.5	8.5
5	14.5	.5	16.0	6.0	21.0	8.0	21.5	8.5	22.5	9.0	12.0	10.0
6	15.5	2.5	15.5	7.5	20.5	7.5	21.0	8.5	22.5	9.0	14.0	10.0
7	10.5	4.5	15.5	6.0	19.5	9.0	21.5	9.5	22.5	9.0	16.0	9.5
8	15.0	4.5	12.0	6.5	20.0	8.5	22.0	9.5	20.5	9.0	15.5	8.5
9	17.0	3.5	15.5	7.0	21.0	8.5	20.5	10.5	21.5	10.5	15.5	9.5
10	17.5	3.5	16.5	6.0	20.5	8.5	21.5	9.5	13.5	10.5	14.0	10.0
11	16.5	3.5	15.0	7.0	21.0	8.5	17.5	10.0	15.0	10.0	16.0	9.0
12	14.5	3.0	15.0	6.5	20.0	8.0	---	---	17.5	10.0	15.0	8.5
13	17.0	6.0	17.5	6.0	18.5	8.0	---	---	17.5	10.0	16.5	8.5
14	15.0	3.0	17.0	6.5	16.0	6.5	---	---	15.5	9.5	15.5	9.0
15	16.5	7.5	14.0	7.0	19.0	5.5	---	---	16.0	9.5	16.5	8.5
16	15.5	4.5	13.5	8.0	19.5	6.0	---	---	19.5	9.0	16.0	8.5
17	18.0	5.0	12.5	8.0	19.5	7.5	18.0	8.5	19.0	8.5	16.0	8.0
18	15.5	5.5	18.0	7.5	20.0	7.5	---	---	18.0	8.5	16.0	7.5
19	18.0	7.5	13.0	7.0	20.5	7.5	---	---	14.5	8.5	16.0	8.0
20	14.5	4.5	12.5	7.5	20.5	8.0	---	---	16.0	8.5	15.5	8.5
21	12.5	3.5	11.5	6.0	20.5	8.0	22.5	9.0	12.0	8.0	15.5	9.5
22	16.0	5.0	12.5	7.5	22.0	8.0	23.0	9.5	17.5	9.0	16.0	9.5
23	18.5	3.5	18.0	8.0	18.0	8.0	21.5	9.0	17.0	8.5	16.0	8.5
24	17.0	5.0	15.0	6.5	21.5	8.5	20.5	11.0	15.0	9.0	13.0	9.0
25	16.5	6.5	15.5	7.0	21.5	8.0	23.0	11.5	16.5	8.5	14.5	8.5
26	15.5	5.5	14.0	8.0	21.5	9.5	22.0	11.5	17.0	8.5	15.0	7.5
27	16.0	5.5	16.0	9.0	20.0	11.0	22.5	9.5	16.5	9.5	15.5	7.0
28	18.0	5.5	18.0	8.5	20.5	11.0	22.0	9.0	16.0	9.0	15.0	7.5
29	19.0	5.5	20.0	8.5	23.0	10.0	20.0	9.5	14.5	9.5	14.0	8.0
30	18.0	6.0	21.0	7.5	23.0	9.5	21.5	10.5	16.0	10.0	15.0	8.5
31	---	---	17.5	9.5	---	---	21.5	10.5	15.0	10.5	---	---
MONTH	19.0	.5	21.0	5.5	23.0	5.5	23.0	8.5	22.5	8.0	16.5	7.0

09306175 BLACK SULPHER CREEK NEAR RIO BLANCO, CO--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
		OCTOBER			NOVEMBER			DECEMBER	
1	1.6	---	.03	6.8	---	.80	3.4	---	1.1
2	1.8	---	.04	7.3	---	.80	3.6	---	1.3
3	1.8	---	.04	7.3	---	.80	3.6	---	1.5
4	1.8	---	.04	7.3	---	.80	6.2	---	3.3
5	1.9	---	.04	7.3	---	.70	6.5	250	4.4
6	1.9	---	.04	8.1	35	.76	6.5	200	3.5
7	2.1	---	.05	8.1	88	1.9	6.1	165	2.7
8	2.1	---	.05	8.1	63	1.4	6.1	190	3.1
9	2.1	---	.05	7.7	120	2.5	5.7	175	2.7
10	2.1	---	.05	7.6	120	2.5	5.7	145	2.2
11	2.2	---	.06	8.0	90	1.9	5.7	145	2.2
12	2.2	---	.06	7.6	100	2.1	4.5	---	1.8
13	2.2	---	.06	7.2	130	2.5	4.7	---	1.9
14	2.4	---	.07	7.2	170	3.3	4.9	---	2.0
15	2.5	---	.08	6.8	135	2.5	5.3	---	2.5
16	2.5	---	.08	6.4	160	2.8	6.0	---	3.2
17	2.9	---	.09	6.4	165	2.9	6.0	---	3.2
18	2.9	---	.09	6.7	140	2.5	6.0	---	3.2
19	2.9	---	.09	6.7	120	2.2	5.3	240	3.4
20	3.5	12	.11	6.3	100	1.7	6.0	250	4.1
21	4.4	27	.33	5.9	150	2.4	6.4	270	4.7
22	8.5	30	.69	5.3	124	2.1	5.9	245	3.9
23	11	35	1.0	5.7	130	2.4	5.9	250	4.0
24	9.9	28	.75	5.9	210	3.3	5.5	245	3.6
25	8.8	48	1.1	5.9	---	3.0	6.2	255	4.3
26	8.3	33	.74	5.9	---	3.0	5.5	220	3.3
27	7.8	25	.53	5.4	---	3.0	5.4	245	3.6
28	7.8	48	1.0	4.6	---	2.0	5.4	260	3.8
29	8.8	43	1.0	4.1	---	2.0	5.4	---	3.8
30	8.2	83	1.8	3.2	---	1.0	5.4	---	3.8
31	7.1	---	1.1	---	---	---	5.4	---	4.1
TOTAL	136.0	---	11.26	196.8	---	61.56	170.2	---	96.2
		JANUARY			FEBRUARY			MARCH	
1	5.4	---	4.1	5.9	265	4.4	7.2	420	8.2
2	5.3	---	4.0	5.3	248	3.5	7.2	370	7.2
3	5.3	360	5.2	5.3	187	2.7	7.2	410	8.0
4	5.7	150	2.3	4.9	225	3.0	7.2	340	6.6
5	5.6	185	2.8	4.9	273	3.7	7.2	350	6.8
6	4.9	175	2.3	5.3	290	4.1	7.2	410	8.0
7	4.9	165	2.2	5.6	278	4.2	7.2	380	7.4
8	5.2	170	2.4	4.9	267	3.9	7.2	330	6.4
9	5.6	220	3.3	4.6	215	3.5	6.4	300	5.2
10	6.3	175	3.0	5.4	198	3.6	6.4	320	5.5
11	5.5	315	4.7	5.8	246	5.0	6.8	270	5.0
12	7.4	165	3.3	6.0	239	4.8	6.8	---	5.0
13	11	480	14	6.4	330	5.7	6.4	---	4.7
14	12	480	16	6.8	360	6.6	6.0	---	4.5
15	11	300	8.9	7.6	956	23	6.0	---	4.5
16	9.7	280	7.3	8.5	1080	25	6.4	---	4.8
17	8.2	260	5.8	9.0	1700	44	5.6	---	5.8
18	7.3	220	4.3	26	2680	340	6.1	---	5.0
19	6.5	230	4.0	31	3160	306	6.4	---	5.0
20	5.7	200	3.1	16	1450	63	6.2	290	4.9
21	4.9	170	2.2	9.0	610	15	6.2	250	4.2
22	4.9	180	2.4	8.0	396	8.6	6.9	360	6.7
23	4.9	240	3.2	7.2	270	5.2	6.8	250	4.6
24	4.9	190	2.5	6.4	250	4.3	6.8	240	4.4
25	5.3	190	2.7	6.4	250	4.3	6.7	260	4.7
26	4.9	220	2.9	7.2	290	5.6	6.6	270	4.8
27	4.4	---	3.0	9.1	801	28	5.9	310	4.9
28	5.3	---	3.0	9.0	985	28	6.0	270	4.4
29	5.3	---	2.0	8.0	530	11	5.8	230	3.6
30	5.5	166	2.6	---	---	---	5.7	320	4.9
31	5.1	213	2.7	---	---	---	5.5	230	3.4
TOTAL	193.9	---	132.2	245.5	---	969.7	202.0	---	169.1

09306175 BLACK SULPHER CREEK NEAR RIO BLANCO, CO-Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
		APRIL			MAY			JUNE	
1	5.8	200	3.1	8.9	1840	44	34	1120	103
2	5.8	195	3.1	14	---	33	32	1110	96
3	5.6	195	2.9	17	---	39	27	1000	73
4	5.2	240	3.4	16	---	27	26	900	63
5	5.0	230	3.1	17	---	25	25	870	59
6	4.7	195	2.5	19	3000	154	23	810	50
7	4.8	175	2.3	20	3100	167	23	810	50
8	4.4	220	2.6	25	2880	194	23	730	45
9	4.4	190	2.3	28	2490	188	23	720	45
10	4.7	210	2.7	31	2500	209	23	670	42
11	4.8	220	2.9	33	2680	239	22	680	40
12	5.3	220	3.1	38	2450	251	21	630	36
13	5.4	210	3.1	42	2160	245	20	540	29
14	5.8	190	3.0	43	5510	775	20	510	28
15	5.7	160	2.5	46	2260	281	20	400	22
16	5.8	150	2.3	40	1810	195	20	380	21
17	5.5	175	2.6	41	---	270	20	520	28
18	5.0	230	3.1	42	---	200	19	504	26
19	4.4	210	2.5	47	---	150	17	590	27
20	4.2	180	2.0	45	---	150	16	552	24
21	4.3	240	2.8	42	---	160	16	370	16
22	5.8	650	10	46	1550	193	16	357	15
23	7.2	1200	23	51	1500	207	16	326	14
24	7.7	1280	27	46	1610	200	16	360	16
25	7.1	1480	28	46	1550	193	16	467	20
26	6.4	1530	26	44	1530	182	15	358	14
27	4.8	1280	17	36	1360	132	13	317	11
28	4.8	1480	19	36	1270	123	10	163	4.4
29	6.5	1750	31	35	1260	119	9.3	138	3.5
30	8.5	2250	52	36	1300	126	9.9	210	5.6
31	---	---	---	34	1160	106	---	---	---
TOTAL	165.4	---	290.9	1064.9	---	5577	591.2	---	1026.5
		JULY			AUGUST			SEPTEMBER	
1	9.0	213	5.2	11	253	7.5	2.4	---	3.0
2	12	440	15	10	205	5.5	2.5	---	3.0
3	11	368	11	9.5	156	4.0	2.7	---	4.0
4	10	283	7.6	9.6	160	4.1	2.8	469	3.5
5	12	380	12	10	145	3.9	3.2	469	4.1
6	11	268	8.0	8.8	182	4.3	2.9	210	1.6
7	11	222	6.6	7.1	148	2.8	2.7	420	3.1
8	13	325	11	7.1	143	2.7	2.9	374	2.9
9	10	292	7.9	6.9	140	2.6	2.9	294	2.3
10	9.5	295	7.6	5.0	338	4.6	3.1	329	2.8
11	8.1	255	5.6	3.1	420	3.5	3.1	172	1.4
12	8.7	294	6.9	2.0	416	2.2	3.0	175	1.4
13	9.4	324	8.2	1.8	381	1.9	3.2	84	.73
14	8.5	307	7.0	1.7	367	1.7	3.3	60	.53
15	7.7	184	3.8	2.2	420	2.5	3.3	46	.41
16	7.5	213	4.3	2.6	297	2.1	3.7	56	.56
17	7.4	262	5.2	2.7	287	2.1	3.6	53	.52
18	7.2	150	2.9	2.8	147	1.1	5.3	39	.56
19	6.5	89	1.6	2.8	154	1.2	9.3	164	4.1
20	7.7	67	1.4	3.0	228	1.8	11	228	6.8
21	8.2	77	1.7	2.6	630	4.4	9.9	238	6.4
22	8.9	78	1.9	1.8	---	3.0	9.1	206	5.1
23	10	102	2.8	1.7	---	2.0	7.4	252	5.0
24	11	205	6.1	2.2	---	3.0	7.2	189	3.7
25	12	300	9.7	2.1	---	3.0	6.1	192	3.2
26	12	237	7.7	2.2	---	3.0	6.2	231	3.9
27	9.8	188	5.0	2.4	---	4.0	8.5	266	6.1
28	8.8	154	3.7	2.3	---	3.0	8.0	273	5.9
29	8.3	146	3.3	2.4	---	3.0	7.7	130	2.7
30	8.5	155	3.6	2.3	---	3.0	6.6	172	3.1
31	8.5	146	3.4	2.4	---	3.0	---	---	---
TOTAL	293.2	---	187.7	134.1	---	96.5	153.6	---	92.41
YEAR	3546.8		8711.03						

09306175 BLACK SULPHER CREEK NEAR RIO BLANCO, CO—Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
		OCTOBER			NOVEMBER			DECEMBER	
1	5.5	21	.31	8.0	212	4.6	4.9	227	3.0
2	5.6	30	.45	8.0	234	5.1	4.8	268	3.5
3	5.7	42	.65	7.5	228	4.6	4.9	305	4.0
4	5.7	26	.40	7.5	163	3.3	4.6	276	3.4
5	5.7	36	.55	7.4	154	3.1	4.3	382	4.4
6	5.8	36	.56	7.2	150	2.9	3.9	326	3.4
7	9.1	197	4.9	7.5	198	4.0	3.8	276	2.8
8	10	151	4.1	7.4	237	4.7	4.2	298	3.4
9	7.6	115	2.4	6.9	325	6.1	4.2	220	2.5
10	7.2	100	1.9	6.9	277	5.2	4.2	202	2.3
11	7.4	75	1.5	6.8	214	3.9	4.2	230	2.6
12	7.6	75	1.5	6.8	211	3.9	4.3	275	3.2
13	6.9	55	1.0	8.3	235	5.3	3.9	245	2.6
14	7.2	35	.68	7.4	224	4.5	3.7	220	2.2
15	12	292	9.8	6.9	186	3.5	3.1	---	1.5
16	13	205	7.2	6.3	158	2.7	3.9	---	2.5
17	13	185	6.5	6.2	134	2.2	3.7	200	2.0
18	12	165	5.3	6.1	162	2.7	3.7	220	2.2
19	12	135	4.4	6.3	161	2.7	3.8	190	1.9
20	12	105	3.4	6.3	179	3.0	3.9	180	1.9
21	12	150	4.9	5.8	247	3.9	4.3	170	2.0
22	12	193	6.3	5.8	188	2.9	5.0	180	2.4
23	11	313	9.3	5.6	204	3.1	5.3	185	2.6
24	11	374	11	5.4	192	2.8	5.0	150	2.0
25	11	287	8.5	5.5	204	3.0	4.7	140	1.8
26	11	256	7.6	5.7	184	2.8	4.5	125	1.5
27	12	289	9.4	5.3	182	2.6	4.3	170	2.0
28	10	270	7.3	5.5	207	3.1	4.2	185	2.1
29	9.0	265	6.4	5.2	196	2.8	4.3	180	2.1
30	9.0	271	6.6	4.9	201	2.7	4.7	170	2.2
31	8.5	225	5.2	---	---	---	5.2	175	2.5
TOTAL	287.5	---	140.00	196.4	---	107.7	133.5	---	78.5
		JANUARY			FEBRUARY			MARCH	
1	5.8	180	2.8	6.1	130	2.1	5.7	142	2.2
2	6.3	150	2.6	4.7	215	4.5	6.1	152	2.5
3	6.7	165	3.0	5.6	425	11	5.8	165	2.6
4	7.6	160	3.3	6.1	258	5.8	5.8	158	2.5
5	8.1	155	3.4	5.2	293	5.8	5.8	150	2.3
6	7.9	130	2.8	5.2	220	3.6	6.2	205	3.4
7	11	165	4.9	4.8	272	5.0	5.9	177	2.8
8	7.7	197	4.1	5.1	241	4.1	5.1	280	3.9
9	5.2	250	3.5	5.7	172	2.6	5.5	190	2.8
10	5.3	225	3.2	5.0	165	2.4	5.9	222	3.5
11	5.0	190	2.6	4.4	184	3.1	5.6	170	2.6
12	4.8	---	2.5	6.5	308	5.0	5.2	185	2.6
13	5.3	---	3.5	5.3	246	3.5	5.2	200	2.8
14	5.5	255	4.8	5.2	210	2.9	5.3	220	3.1
15	5.9	205	3.5	5.2	200	2.8	4.9	265	3.5
16	5.8	232	3.8	4.9	170	2.2	4.9	---	4.0
17	5.8	165	2.6	5.1	190	2.6	4.7	285	3.6
18	5.6	246	3.8	5.4	210	3.1	4.5	205	2.5
19	5.5	226	3.6	5.5	195	2.9	4.2	170	1.9
20	5.5	200	3.1	5.8	270	4.2	4.2	180	2.0
21	5.2	193	2.9	5.2	---	3.0	4.2	166	1.9
22	5.4	202	3.2	5.2	---	3.0	4.3	208	2.4
23	5.3	192	3.0	5.3	---	3.0	4.0	225	2.4
24	5.8	145	2.3	5.4	---	3.0	4.3	251	2.9
25	5.8	196	3.1	5.3	---	3.0	4.1	239	2.6
26	5.1	165	2.7	5.6	175	2.6	4.3	269	3.1
27	5.7	157	2.6	6.0	160	2.6	4.3	355	4.1
28	5.8	115	1.8	6.1	159	2.6	4.9	310	4.1
29	6.0	127	2.1	---	---	---	4.9	312	4.1
30	6.2	130	2.2	---	---	---	5.3	370	5.3
31	5.9	200	3.2	---	---	---	4.9	407	5.0
TOTAL	188.5	---	96.5	150.9	---	102.0	156.0	---	95.0

09306175 BLACK SULPHER CREEK NEAR RIO BLANCO, CO-Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
		APRIL			MAY			JUNE	
1	5.5	437	6.5	3.5	63	.60	1.8	78	.38
2	5.6	320	4.8	3.1	67	.56	2.2	62	.37
3	5.8	333	5.2	5.3	224	3.8	2.1	49	.28
4	5.7	234	3.6	3.9	138	1.5	1.8	50	.24
5	5.5	324	4.8	2.5	78	.53	1.7	54	.25
6	5.8	225	3.5	1.9	68	.35	1.8	42	.20
7	5.7	212	3.3	1.4	24	.09	1.8	24	.12
8	5.6	207	3.1	1.4	39	.15	1.6	24	.10
9	5.6	198	3.0	1.3	27	.09	1.6	54	.23
10	5.5	185	2.7	1.2	53	.17	1.6	68	.29
11	5.8	251	3.9	1.2	30	.10	1.5	78	.32
12	6.1	239	3.9	1.2	11	.04	1.5	78	.32
13	6.1	221	3.6	1.2	22	.07	1.6	98	.42
14	5.9	266	4.2	1.2	58	.19	1.7	72	.33
15	5.6	311	4.7	1.2	36	.12	1.6	66	.29
16	4.3	---	2.0	1.2	63	.20	1.6	94	.41
17	4.4	---	2.0	1.3	26	.09	1.6	66	.29
18	4.4	---	2.0	1.4	28	.11	1.6	82	.35
19	3.8	---	1.0	1.3	45	.16	1.6	90	.39
20	3.4	---	.50	1.4	87	.33	1.5	90	.36
21	2.6	50	.35	1.6	75	.32	1.6	96	.41
22	2.3	68	.42	1.7	111	.51	1.6	98	.42
23	1.7	50	.23	1.7	90	.41	1.5	70	.28
24	1.5	23	.09	1.7	102	.47	1.4	58	.22
25	1.5	24	.10	1.5	102	.41	1.5	66	.27
26	1.9	23	.12	1.5	96	.39	1.4	90	.34
27	2.1	23	.13	1.6	116	.50	1.5	90	.36
28	2.7	50	.36	1.7	116	.53	2.8	318	4.5
29	3.8	86	.88	1.6	76	.33	2.3	278	1.5
30	3.6	72	.70	1.6	70	.30	2.6	97	.68
31	---	---	---	1.7	76	.35	---	---	---
TOTAL	129.8	---	71.68	56.0	---	13,77	52.0	---	14.92
		JULY			AUGUST			SEPTEMBER	
1	3.1	114	.95	1.8	45	.22	1.4	37	.14
2	2.1	144	.82	1.7	42	.19	1.5	70	.28
3	1.3	108	.38	1.7	32	.15	1.5	85	.34
4	1.2	114	.37	1.7	28	.13	1.4	105	.40
5	1.1	102	.30	1.9	23	.12	1.4	65	.25
6	1.2	114	.37	1.8	90	.44	1.4	78	.29
7	1.3	92	.32	1.8	50	.24	1.5	80	.32
8	1.3	84	.29	1.6	80	.35	1.4	75	.28
9	1.3	78	.27	1.5	110	.45	1.6	113	.49
10	1.5	90	.36	1.5	45	.18	1.6	55	.24
11	9.2	2620	545	1.5	55	.22	1.5	35	.14
12	7.3	2010	152	2.1	454	8.2	1.6	50	.22
13	3.8	---	10	1.5	325	1.3	1.7	45	.21
14	3.5	---	5.0	1.4	125	.47	1.8	38	.18
15	3.0	---	2.0	1.6	105	.45	1.9	20	.10
16	2.9	---	2.0	1.7	118	.54	1.8	22	.11
17	12	1970	697	1.7	105	.48	1.7	42	.19
18	8.8	2170	465	1.7	91	.42	1.7	82	.38
19	3.3	---	4.0	1.5	100	.41	1.7	68	.31
20	2.9	150	1.2	1.5	88	.36	1.7	58	.27
21	2.9	103	.81	1.4	100	.38	1.7	50	.23
22	2.7	80	.58	1.4	103	.39	1.7	42	.19
23	2.5	78	.53	1.4	85	.32	1.6	32	.14
24	2.7	81	.59	1.4	100	.38	1.5	94	.38
25	2.7	78	.57	1.4	70	.26	1.5	47	.19
26	2.7	75	.55	1.4	95	.36	1.5	80	.32
27	2.9	78	.61	1.4	115	.43	1.5	32	.13
28	2.2	95	.56	1.3	105	.37	1.5	32	.13
29	1.8	59	.29	1.3	82	.29	1.5	18	.07
30	1.8	55	.27	1.3	57	.20	1.5	40	.16
31	1.8	58	.28	1.3	45	.16	---	---	---
TOTAL	98.8	---	1893.27	48.2	---	18,86	47.3	---	7.08
YEAR	1544.9		2639.28						

09306200 PICEANCE CREEK BELOW RYAN GULCH, NEAR RIO BLANCO, CO

LOCATION.--Lat 39°55'16", long 108°17'49", in sec.32, T.1 S., R.97 W., Rio Blanco County, Hydrologic Unit 14050006, on left bank at downstream side of bridge, 40 ft (12 m) downstream from Ryan Gulch, and 23 mi (37 km) northwest of Rio Blanco.

DRAINAGE AREA.--506 mi^2 (1,310 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1964 to current year.

REVISED RECORDS.--WDR Colo. 1973: 1972(M); WDR CO-79-3: Drainage area.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 6,070 ft (1,850 m), from topographic map.

REMARKS.--Records good except those for winter period, which are fair. Diversions for irrigation above station.

AVERAGE DISCHARGE.--17 years, 20.1 ft^3/s (0.569 m^3/s) 14,560 acre-ft/yr (18.0 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 400 ft^3/s (11 m^3/s), estimated, Mar. 9, 1966, gage height, 6.23 ft (1.899 m); minimum daily, 0.15 ft^3/s (0.004 m^3/s) June 7, 1981.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 42 ft^3/s (1.19 m^3/s) at 0730 Nov. 13, gage height, 3.31 ft (1.009 m), no peak above base of 100 ft^3/s (2.8 m^3/s); minimum daily, 0.15 ft^3/s (0.004 m^3/s) June 7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.8	33	32	29	27	23	28	10	5.2	5.6	8.7	4.9
2	11	33	32	29	24	21	27	10	3.8	5.3	8.7	2.6
3	11	32	31	29	27	22	30	15	3.4	4.2	8.1	2.3
4	12	32	31	29	28	22	31	15	3.1	4.4	6.4	2.9
5	11	32	31	29	26	21	27	7.1	1.7	5.2	7.9	3.5
6	11	32	32	28	27	22	28	7.4	.39	5.0	12	3.9
7	13	32	31	28	25	24	31	4.0	.15	4.0	11	4.5
8	15	31	31	28	26	23	32	4.9	1.5	3.8	10	4.5
9	16	28	30	28	25	23	28	5.0	3.7	4.5	9.5	4.2
10	15	29	29	29	25	24	23	8.7	3.4	8.4	10	5.1
11	17	33	29	28	21	25	23	9.9	4.2	8.8	12	5.0
12	19	35	29	28	22	24	22	10	4.2	15	11	4.9
13	18	41	29	28	24	24	21	9.9	3.8	11	9.6	4.8
14	18	38	29	28	24	24	19	8.2	4.6	7.8	10	4.7
15	23	36	30	29	24	24	18	7.7	5.9	6.5	9.3	4.4
16	25	33	29	28	24	24	15	7.9	5.8	6.1	9.7	5.2
17	25	33	30	27	24	26	14	8.1	5.3	6.1	9.2	3.5
18	24	33	29	26	24	25	11	11	6.5	11	7.6	3.3
19	24	32	29	26	23	24	10	9.8	4.4	8.4	7.9	3.7
20	25	32	29	26	26	24	9.5	9.1	3.9	6.9	8.5	4.6
21	24	32	30	26	25	24	7.7	8.0	3.0	5.8	9.0	3.7
22	24	33	30	26	24	25	6.3	6.2	2.9	6.3	8.0	3.1
23	25	33	30	26	24	24	5.8	5.9	5.0	5.4	6.6	3.4
24	25	33	29	27	23	25	4.2	5.8	7.7	4.6	5.9	4.8
25	25	32	29	27	24	25	3.1	6.0	7.4	4.9	5.1	3.9
26	25	32	29	26	24	24	3.7	4.4	6.9	6.0	4.1	3.8
27	29	32	29	26	23	28	3.3	3.6	7.6	8.2	4.2	2.3
28	37	32	28	26	23	29	11	2.8	8.0	8.9	4.6	4.1
29	35	32	28	26	---	27	12	3.9	8.1	8.2	4.6	4.4
30	35	32	28	26	---	29	12	4.8	5.7	8.8	5.3	2.3
31	34	---	29	26	---	28	---	5.9	---	8.8	5.6	---
TOTAL	660.8	983	921	848	686	757	516.6	236.0	137.24	213.9	250.1	118.3
MEAN	21.3	32.8	29.7	27.4	24.5	24.4	17.2	7.61	4.57	6.90	8.07	3.94
MAX	37	41	32	29	28	29	32	15	8.1	15	12	5.2
MIN	9.8	28	28	26	21	21	3.1	2.8	.15	3.8	4.1	2.3
AC-FT	1310	1950	1830	1680	1360	1500	1020	468	272	424	496	235

CAL YR 1980 TOTAL 13246.10 MEAN 36.2 MAX 167 MIN 8.6 AC-FT 26270
WTR YR 1981 TOTAL 6327.94 MEAN 17.3 MAX 41 MIN .15 AC-FT 12550

09306200 PICEANCE CREEK BELOW RYAN GULCH, NEAR RIO BLANCO, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--December 1970 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: December 1979 to September 1981.
WATER TEMPERATURE: December 1979 to September 1981.
SUSPENDED-SEDIMENT DISCHARGE: October 1972 to current year.

INSTRUMENTATION.--Automatic pumping sediment sampler since October 1972. Water-quality monitor since December 1979.

REMARKS.--Daily maximum and minimum specific-conductance data available in district office.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum 2,920 micromhos July 18, 1981; minimum, 520 micromhos July 18, 1981.
WATER TEMPERATURES: Maximum 26.5°C June 22, 1981; minimum, 0.0°C on many days during the winter period.
SEDIMENT CONCENTRATIONS: Maximum daily, 21,700 mg/L July 20, 1977; minimum daily, 8 mg/L Oct. 14, 1979, several days in Sept. 1981.
SEDIMENT LOADS: Maximum daily, 4,160 tons (3,770 t) July 20, 1977; minimum daily, 0.05 ton (0.05 t) Sept. 27, 30, 1961.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 2,920 micromhos July 18; minimum 520 micromhos July 18.
WATER TEMPERATURE: Maximum, 26.5 June 22; minimum 0.0°C many days during November to April.
SEDIMENT CONCENTRATIONS: Maximum daily, 6,190 mg/L July 12; minimum daily, 8 mg/L several days in September.
SEDIMENT LOADS: Maximum daily, 290 tons (263 t) July 12; minimum daily, 0.05 ton (0.05 t) Sept. 27, 30.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	NITRO-GEN DIS-SOLVED (MG/L AS N)	HARD-NESS (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)
OCT											
15...	1050	24	1800	--	7.9	8.5	8.6	--	590	81	93
NOV											
04...	1445	35	1510	1539	8.1	9.0	9.8	--	480	76	71
DEC											
11...	1000	30	1440	1480	8.0	.0	--	--	470	75	67
JAN											
14...	1030	21	1450	1510	7.9	.5	12.1	--	460	74	65
23...	1705	30	1450	1440	8.4	3.6	11.2	1.4	450	67	68
FEB											
12...	1100	40	1360	1320	8.4	.0	12.5	--	470	76	67
MAR											
04...	1140	22	1460	1460	8.2	5.5	11.2	--	480	74	71
APR											
16...	1030	15	1600	1550	8.2	11.0	11.1	--	520	75	79
MAY											
13...	1050	11	1800	1690	8.2	8.5	7.7	--	540	72	86
JUN											
10...	1020	3.7	2210	2190	8.1	16.5	8.4	--	650	78	110
JUL											
09...	0930	3.1	2380	2420	8.0	16.0	5.8	--	620	66	110
AUG											
05...	1100	7.7	1680	1690	8.3	17.0	8.6	--	520	65	85
SEP											
08...	1130	4.6	1980	1980	8.2	14.5	9.8	--	650	79	110

09306200 PICEANCE CREEK BELOW RYAN GULCH, NEAR RIO BLANCO, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY LAB (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)
OCT											
15...	220	4.0	4.2	550	450	17	.7	19	1220	1.7	79.1
NOV											
04...	170	3.4	3.1	460	350	13	1.1	18	980	1.3	92.6
DEC											
11...	170	3.4	3.6	480	290	12	1.7	19	936	1.3	75.8
JAN											
14...	180	3.7	.3	--	320	13	2.0	18	978	1.3	55.5
23...	180	3.7	2.2	--	350	11	1.7	21	978	1.3	79.2
FEB											
12...	150	3.0	2.0	400	320	13	1.3	17	894	1.2	96.6
MAR											
04...	160	3.2	2.2	450	340	12	1.4	17	955	1.3	56.7
APR											
16...	190	3.7	2.4	490	390	35	1.5	16	1090	1.5	44.1
MAY											
13...	240	4.5	2.7	610	440	15	1.2	16	1240	1.7	36.8
JUN											
10...	330	5.6	3.3	680	640	21	1.1	15	1610	2.2	16.1
JUL											
09...	370	6.5	2.8	790	660	24	1.2	15	1720	2.3	14.4
AUG											
05...	210	4.7	2.8	550	420	13	.8	15	1150	1.6	23.9
SEP											
08...	250	5.0	3.8	650	480	17	.9	19	1350	1.8	16.8

DATE	NITRO- GEN, NITRATE TOTAL (MG/L AS N)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)
OCT											
15...	--	--	--	.32	.29	.060	--	1.1	1.20	--	1.5
NOV											
04...	5.9	.000	--	5.9	.36	.000	--	.53	.53	--	6.4
DEC											
11...	.78	.010	--	.79	.82	.000	--	.77	.77	--	1.6
JAN											
14...	.81	.010	.020	.82	1.6	.030	.040	2.1	2.10	--	2.9
23...	--	--	--	--	.72	--	.040	--	--	.63	--
FEB											
12...	.72	.010	--	.73	.71	.080	--	.78	.86	--	1.6
MAR											
04...	.65	.010	--	.66	.62	.000	--	.92	.92	--	1.6
APR											
16...	.35	.020	--	.37	.37	.070	.050	.18	.25	--	.62
MAY											
13...	.17	.010	--	.18	.18	.080	--	.81	.89	--	1.1
JUN											
10...	.03	.000	--	.03	.04	.100	--	1.8	1.90	--	1.9
JUL											
09...	.02	.000	--	.02	.04	.040	--	.92	.96	--	.98
AUG											
05...	.08	.020	--	.10	.00	.150	--	.72	.87	--	.97
SEP											
08...	--	.000	--	<.09	.01	.110	--	.99	1.10	--	--

09306200 PICEANCE CREEK BELOW RYAN GULCH, NEAR RIO BLANCO, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, TOTAL (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, DISSOLVED (UG/L AS BA)	BORON, DISSOLVED (UG/L AS B)	CADMIUM DISSOLVED (UG/L AS CD)	COPPER, DISSOLVED (UG/L AS CU)	IRON, DISSOLVED (UG/L AS FE)
OCT 15...	.240	--	--	.030	5	100	180	<1	2	10
NOV 04...	.130	--	.030	.020	3	80	200	<1	3	<10
DEC 11...	.050	--	.030	.010	3	90	200	<1	2	10
JAN 14...	.060	--	.090	.010	3	90	210	<1	5	20
23...	--	.060	--	--	--	--	220	--	--	<10
FEB 12...	.120	--	.030	.000	4	90	180	<1	3	10
MAR 04...	.110	--	.020	.000	2	90	180	<1	2	20
APR 16...	.050	--	.040	.000	2	100	200	<1	2	20
MAY 13...	.090	--	.010	.020	3	80	260	<1	1	20
JUN 10...	.350	--	.160	.030	6	100	330	0	4	70
JUL 09...	.150	--	.100	.090	6	100	430	1	3	50
AUG 05...	.080	--	.020	.010	4	110	250	<1	1	12
SEP 08...	.070	--	.000	.040	4	100	300	<1	4	28

DATE	LEAD, DISSOLVED (UG/L AS PB)	LITHIUM DISSOLVED (UG/L AS LI)	MANGANESE, DISSOLVED (UG/L AS MN)	MERCURY DISSOLVED (UG/L AS HG)	MOLYBDENUM, DISSOLVED (UG/L AS MO)	SELENIUM, DISSOLVED (UG/L AS SE)	STRONTIUM, DISSOLVED (UG/L AS SR)	ZINC, DISSOLVED (UG/L AS ZN)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)	PHENOLS (UG/L)
OCT 15...	0	20	40	.0	--	1	3800	7	.00	--
NOV 04...	2	10	10	.0	--	1	--	9	.00	--
DEC 11...	0	10	10	.0	--	1	2800	4	.00	0
JAN 14...	0	20	10	.1	--	1	2800	10	.20	--
23...	--	--	--	--	<10	--	3000	--	--	--
FEB 12...	2	20	20	.0	--	1	2900	8	.00	--
MAR 04...	1	10	20	.0	--	1	3100	10	.00	--
APR 16...	3	10	30	.0	--	1	3400	30	.00	1
MAY 13...	1	10	70	.0	--	1	3100	10	.00	--
JUN 10...	0	10	210	.0	--	0	3400	20	.00	--
JUL 09...	2	20	160	.0	--	1	340	20	.10	0
AUG 05...	0	23	91	.0	--	0	3200	7	.00	--
SEP 08...	10	16	140	.0	--	1	4000	4	.10	--

09306200 PICEANCE CREEK BELOW RYAN GULCH, NEAR RIO BLANCO, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	x ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL)	x ARSENIC TOTAL (UG/L AS AS)	x BARIUM, TOTAL RECOVERABLE (UG/L AS BA)	x BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE)	x CADMIUM TOTAL RECOVERABLE (UG/L AS CD)	x CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	COBALT, TOTAL RECOVERABLE (UG/L AS CO)	COPPER, TOTAL RECOVERABLE (UG/L AS CU)	IRON, TOTAL RECOVERABLE (UG/L AS FE)
APR										
16...	1030	300	2	100	0	0	10	0	4	420
JUL										
09...	0930	--	--	--	--	--	--	--	--	--

DATE	LEAD, TOTAL RECOVERABLE (UG/L AS PB)	LITHIUM TOTAL RECOVERABLE (UG/L AS LI)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	MERCURY TOTAL RECOVERABLE (UG/L AS HG)	MOLYBDENUM, TOTAL RECOVERABLE (UG/L AS MO)	NICKEL, TOTAL RECOVERABLE (UG/L AS NI)	SELENIUM, TOTAL (UG/L AS SE)	SILVER, TOTAL RECOVERABLE (UG/L AS AG)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN)
APR									
16...	0	10	40	.1	5	5	1	0	10
JUL									
09...	--	--	--	--	--	--	1	--	--

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY)
FEB				
12...	1411	34	982	90
MAR				
19...	1041	24	243	16

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY)
APR				
01...	0937	27	321	23

09306200 PICEANCE CREEK BELOW RYAN GULCH, NEAR RIO BLANCO, CO-Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	1550	1430	1420	1450	1450	1470	1710	2180	1970	2100	2050
2	---	1540	1430	1420	1510	1470	1450	1700	2330	2000	2090	2070
3	1910	1540	1430	1410	1500	1460	1390	1620	2250	2160	2000	2060
4	1880	1540	1420	1420	1470	1460	1390	1670	2350	2140	1850	2090
5	1900	1530	1410	1390	1480	1480	1440	1870	2070	2070	1790	2060
6	1890	1530	1410	1420	1460	1450	1440	1840	1410	2090	1600	2040
7	1860	1530	1420	1480	1440	1390	1400	2060	1280	1940	1600	2030
8	1810	1530	1420	1440	1460	1430	1380	2060	1940	1880	1630	2010
9	1770	1540	1420	1430	1460	1430	1420	2070	2230	2140	1660	2010
10	1770	1540	1440	1430	1460	1440	1480	1770	2250	1920	1640	1970
11	1740	1500	1440	1440	---	1410	1480	1640	2200	1860	1620	1970
12	1690	1500	1430	1440	1410	1420	1490	1630	2150	1150	1640	1990
13	1720	1440	1440	1440	1440	1420	1520	---	2170	---	1610	2010
14	1700	1440	1430	1450	1440	1410	1560	---	2100	---	1670	2020
15	1690	1450	1420	1440	1450	1410	1560	---	2020	---	1690	2090
16	1650	1460	1430	1460	1430	1410	1540	---	2000	---	1700	2040
17	1650	1450	1420	1450	1430	1380	1540	---	2030	2190	1730	2100
18	1640	1460	1420	1450	1420	1390	1590	---	2040	1710	1770	2160
19	1620	1450	1420	1460	1410	1450	1590	1900	2170	2280	1810	2120
20	1610	1450	1430	1460	1400	1470	1640	1950	2210	2300	1790	2060
21	1600	1450	1420	1470	1410	1460	1750	2000	2290	2310	1760	2090
22	1590	1450	1420	1470	1450	1460	1810	2100	2230	2300	1800	2210
23	---	1450	1400	1450	1440	1460	1870	2160	2090	2290	1840	2190
24	---	1430	1410	1450	1460	1450	2040	2210	1850	2260	1860	2080
25	---	1430	1420	1450	1420	1470	2220	2190	1850	2240	1910	2130
26	---	1440	1420	1450	1400	1470	2180	2380	1870	2210	1970	2160
27	---	1440	1410	1450	1430	1430	2300	2200	1840	2170	2020	2320
28	1590	1440	1410	1460	1420	1410	1860	2370	1820	2120	2020	2150
29	1570	1430	1410	1450	---	1440	1690	2350	1790	2120	2010	2090
30	1560	1430	1420	1480	---	1410	1680	2260	1950	2100	2000	2310
31	1560	---	1420	1460	---	1430	---	2170	---	2120	2010	---
MEAN	1710	1480	1420	1440	1440	1440	1640	2000	2030	2080	1810	2090

WTR YR 1981 MEAN 1710 MAX 2380 MIN 1150

09306200 PICEANCE CREEK BELOW RYAN GULCH, NEAR RIO BLANCO, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	---	---	9.5	3.5	5.5	2.5	4.5	.0	2.5	.0	7.0	2.5
2	---	---	9.0	4.0	5.5	2.0	5.0	1.0	1.0	.0	6.0	2.0
3	17.0	11.0	8.0	3.5	6.5	4.5	5.5	2.0	1.5	.0	7.0	2.0
4	17.0	6.5	9.5	4.0	6.5	4.5	5.5	2.0	2.5	.0	9.5	3.5
5	17.0	6.5	10.0	4.0	5.5	4.0	5.0	3.0	2.0	.0	9.0	1.5
6	17.0	7.0	9.0	4.0	6.0	2.5	4.0	1.0	2.0	.0	5.5	.5
7	17.0	2.0	10.0	5.0	5.0	3.0	2.5	.0	2.0	.0	7.0	1.0
8	16.5	7.0	10.5	5.5	4.0	1.0	2.0	.0	3.0	.0	8.0	.5
9	16.0	6.5	9.5	3.5	3.0	.0	2.5	.0	5.0	.5	10.0	1.5
10	15.0	6.0	9.0	3.5	1.5	.0	3.5	.0	3.0	.0	9.5	2.0
11	15.0	5.5	8.5	3.0	3.0	.0	2.5	.0	.0	.0	6.0	2.0
12	11.5	7.0	8.5	6.0	3.0	.0	2.5	.0	4.5	.0	8.5	4.0
13	15.5	9.0	8.0	4.5	2.5	.0	1.5	.0	6.5	.0	8.0	2.0
14	13.0	8.0	5.5	3.5	2.0	.0	2.0	.0	6.0	1.0	11.0	2.0
15	10.0	7.5	4.5	1.0	4.0	.0	3.5	.0	8.0	2.5	11.5	2.5
16	9.5	6.5	3.5	.0	4.5	.5	3.0	.0	9.0	2.5	9.5	3.0
17	10.0	7.5	3.5	.0	5.5	1.0	4.5	1.0	6.5	3.0	8.0	3.0
18	11.0	7.0	3.5	.0	5.5	1.5	4.5	.0	8.0	2.5	10.0	3.0
19	13.0	5.5	4.5	.0	4.5	2.0	4.0	.0	7.5	2.0	10.0	3.0
20	13.0	5.5	4.5	.0	4.5	.5	4.5	.0	6.0	1.5	8.0	5.0
21	13.0	5.5	4.5	.0	5.5	1.5	4.0	.0	6.0	.0	6.5	4.0
22	12.5	6.5	4.5	1.0	6.5	3.5	4.0	.0	7.0	.0	9.5	2.0
23	---	---	5.5	2.5	6.0	3.5	4.0	.0	8.5	.5	11.0	4.0
24	---	---	4.5	2.5	4.5	1.0	5.0	.5	9.0	1.0	9.0	4.5
25	---	---	4.0	.5	6.5	3.0	4.5	.5	8.0	1.0	11.0	2.0
26	---	---	4.0	.5	6.0	3.0	2.0	.0	5.5	2.0	12.0	4.5
27	---	---	2.5	.0	6.0	2.5	3.0	.0	10.0	2.0	10.0	5.0
28	14.5	4.5	5.0	1.0	6.0	3.0	5.5	2.5	8.5	1.5	6.5	4.0
29	8.5	2.5	5.5	1.5	5.0	1.0	6.0	2.5	---	---	12.5	2.5
30	9.5	3.0	6.0	3.5	4.5	.0	3.0	1.5	---	---	7.5	2.5
31	10.0	4.0	---	---	4.5	.0	1.5	.0	---	---	9.5	.0
MONTH	17.0	2.0	10.5	.0	6.5	.0	6.0	.0	10.0	.0	12.5	.0
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	12.0	2.5	19.5	8.0	22.0	10.5	18.5	16.0	---	---	23.5	11.5
2	12.5	2.5	19.0	11.5	22.5	10.5	23.0	14.5	---	---	21.5	13.0
3	9.0	3.5	13.5	7.5	17.0	12.0	23.0	12.5	---	---	24.0	13.0
4	8.5	4.0	19.0	6.5	22.0	11.0	25.5	12.5	---	---	23.5	11.0
5	12.0	2.5	17.0	7.0	24.0	10.5	26.0	12.5	---	---	16.5	14.0
6	13.5	.0	17.5	9.0	25.0	10.0	24.0	13.5	24.0	14.0	20.0	13.0
7	9.5	3.5	16.5	6.5	23.5	11.5	24.5	14.0	23.5	13.0	21.0	13.0
8	12.5	6.0	11.5	6.5	23.5	10.5	24.0	14.5	22.5	13.0	20.5	11.0
9	15.0	5.0	17.0	6.5	25.0	12.0	22.0	14.0	24.0	14.0	22.0	13.0
10	16.0	4.5	18.0	6.5	22.0	12.5	22.0	13.5	17.0	14.0	20.0	13.0
11	15.5	5.5	13.5	7.5	24.0	11.5	21.0	14.5	16.5	12.0	20.5	11.5
12	13.5	5.5	15.5	6.5	23.0	12.0	18.0	15.0	20.5	12.5	21.0	10.5
13	15.0	5.0	18.0	5.5	22.5	11.0	---	---	18.0	13.0	22.5	10.5
14	15.0	7.5	17.5	7.0	18.0	9.0	---	---	20.5	13.0	21.5	11.5
15	16.5	5.0	14.5	8.5	21.0	6.5	---	---	18.0	12.5	21.5	10.0
16	15.5	8.5	15.0	9.0	21.5	8.0	---	---	23.0	12.0	20.5	10.5
17	18.0	6.0	13.0	8.5	22.5	10.0	18.0	14.0	23.5	12.5	20.5	8.5
18	16.0	6.5	21.0	8.5	22.5	10.5	18.5	10.0	23.5	12.5	21.0	8.0
19	17.5	7.5	15.5	9.0	24.0	10.5	19.5	14.5	18.5	12.5	20.0	8.5
20	15.5	9.0	13.0	8.5	23.5	11.5	18.0	14.0	22.5	11.5	20.5	10.0
21	13.0	6.0	11.5	5.5	24.5	11.5	19.0	14.0	16.0	11.5	20.0	12.0
22	17.0	4.5	13.0	7.5	26.5	11.5	19.0	14.5	23.0	11.5	21.0	12.0
23	21.0	5.5	18.5	8.5	22.0	12.5	18.0	14.5	23.5	12.5	19.5	9.5
24	22.0	5.0	16.5	8.0	24.5	12.5	17.5	14.0	20.0	13.5	16.0	11.0
25	22.0	6.5	15.5	9.0	23.5	12.5	19.5	14.5	23.5	12.0	16.0	9.0
26	19.5	7.5	14.5	10.0	25.5	14.0	17.5	15.0	25.5	12.0	18.0	7.0
27	20.5	6.0	17.0	10.5	23.0	15.5	18.0	13.5	26.0	14.5	19.0	6.5
28	19.5	5.5	19.5	9.0	22.0	15.5	18.5	14.0	22.5	13.0	18.0	7.5
29	21.5	6.0	19.0	11.0	23.0	13.5	17.5	14.5	22.5	13.5	16.0	8.5
30	20.5	7.0	21.5	9.5	25.5	13.0	18.5	15.0	22.0	13.5	19.0	9.5
31	---	---	20.5	12.0	---	---	---	---	22.5	12.5	---	---
MONTH	22.0	.0	21.5	5.5	26.5	6.5	26.0	10.0	26.0	11.5	24.0	6.5
YEAR	26.5	.0										

09306200 PICEANCE CREEK BELOW RYAN GULCH, NEAR RIO BLANCO, CO-Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
		OCTOBER			NOVEMBER			DECEMBER	
1	9.8	18	.48	33	82	7.3	32	---	35
2	11	32	.95	33	80	7.1	32	---	35
3	11	32	.95	32	100	8.6	31	---	35
4	12	51	1.7	32	80	6.9	31	---	35
5	11	47	1.4	32	70	6.0	31	---	35
6	11	104	3.1	32	95	8.2	32	---	35
7	13	72	2.5	32	240	21	31	---	35
8	15	104	4.2	31	260	22	31	---	35
9	16	143	8.0	28	240	18	30	---	30
10	15	202	8.2	29	250	20	29	---	30
11	17	---	8.0	33	285	25	29	372	29
12	19	---	8.0	35	350	33	29	230	18
13	18	---	8.0	41	538	60	29	325	25
14	18	---	8.0	38	405	42	29	240	19
15	23	---	10	36	339	33	30	320	26
16	25	---	10	33	310	28	29	200	16
17	25	---	10	33	---	30	30	200	16
18	24	---	9.0	33	543	48	29	200	16
19	24	---	8.0	32	---	40	29	200	16
20	25	---	7.0	32	---	40	29	225	18
21	24	91	6.0	32	---	40	30	320	26
22	24	130	8.4	33	---	40	30	240	19
23	25	98	6.6	33	---	40	30	200	16
24	25	---	7.0	33	---	40	29	---	15
25	25	---	7.0	32	---	35	29	290	23
26	25	---	7.0	32	---	35	29	395	31
27	29	312	24	32	---	35	29	240	19
28	37	320	32	32	---	35	28	178	13
29	35	175	17	32	---	35	28	181	14
30	35	155	15	32	---	35	28	198	15
31	34	120	11	---	---	---	29	199	16
TOTAL	660.8	---	258.48	983	---	874.1	921	---	746
		JANUARY			FEBRUARY			MARCH	
1	29	158	12	27	228	17	23	195	12
2	29	150	12	24	228	15	21	135	7.7
3	29	295	23	27	523	41	22	145	8.6
4	29	---	25	28	507	39	22	130	7.7
5	29	---	30	26	524	40	21	145	8.2
6	28	---	30	27	282	21	22	185	11
7	28	480	36	25	293	22	24	264	17
8	28	230	17	26	302	23	23	187	12
9	28	250	19	25	236	16	23	176	11
10	29	305	24	25	180	12	24	220	14
11	28	350	26	21	105	6.0	25	252	17
12	28	290	22	22	572	34	24	218	14
13	28	260	20	24	370	24	24	202	13
14	28	195	15	24	255	17	24	247	16
15	29	500	39	24	240	16	24	221	14
16	28	414	31	24	228	15	24	231	15
17	27	319	23	24	228	15	26	292	20
18	26	323	23	24	218	14	25	308	21
19	26	323	23	23	210	13	24	224	15
20	26	108	7.6	26	320	22	24	315	20
21	26	400	28	25	270	18	24	224	15
22	26	352	25	24	235	15	25	238	16
23	26	272	19	24	252	16	24	210	14
24	27	272	20	23	195	12	25	294	20
25	27	240	17	24	220	14	25	301	20
26	26	248	17	24	265	17	24	266	17
27	26	327	23	23	205	13	28	442	33
28	26	225	16	23	205	13	29	436	34
29	26	270	19	---	---	---	27	288	21
30	26	308	22	---	---	---	29	312	24
31	26	280	20	---	---	---	28	330	25
TOTAL	848	---	683.6	686	---	540.0	757	---	513.2

09306200 PICEANCE CREEK BELOW RYAN GULCH, NEAR RIO BLANCO, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
		APRIL			MAY			JUNE	
1	28	325	25	10	94	2.5	5.2	88	1.2
2	27	---	25	10	52	1.4	3.8	120	1.2
3	30	---	30	15	78	3.2	3.4	125	1.1
4	31	---	30	15	266	11	3.1	62	.52
5	27	---	30	7.1	52	1.0	1.7	70	.32
6	28	420	32	7.4	35	.70	.39	---	.05
7	31	---	40	4.0	32	.35	.15	---	.02
8	32	---	30	4.9	31	.41	1.5	---	.30
9	28	315	24	5.0	35	.47	3.7	72	.72
10	23	245	15	8.7	80	1.9	3.4	100	.92
11	23	240	15	9.9	51	1.4	4.2	95	1.1
12	22	175	10	10	40	1.1	4.2	72	.82
13	21	120	6.8	9.9	33	.88	3.8	70	.72
14	19	80	4.1	8.2	30	.66	4.6	59	.73
15	18	95	4.6	7.7	50	1.0	5.9	88	1.4
16	15	36	1.5	7.9	35	.75	5.8	65	1.0
17	14	28	1.1	8.1	35	.77	5.3	70	1.0
18	11	18	.53	11	75	2.2	6.5	68	1.2
19	10	24	.65	9.8	42	1.1	4.4	45	.53
20	9.5	9	.23	9.1	27	.66	3.9	57	.60
21	7.7	9	.19	8.0	60	1.3	3.0	62	.50
22	6.3	17	.29	6.2	50	.84	2.9	55	.43
23	5.8	25	.39	5.9	105	1.7	5.0	70	.95
24	4.2	---	.50	5.8	95	1.5	7.7	78	1.6
25	3.1	---	.50	6.0	105	1.7	7.4	90	1.8
26	3.7	---	.50	4.4	72	.86	6.9	145	2.7
27	3.3	---	.50	3.6	100	.97	7.6	128	2.6
28	11	---	2.0	2.8	105	1.4	8.0	200	6.0
29	12	---	3.0	3.9	---	1.0	8.1	345	7.5
30	12	---	3.0	4.8	---	1.0	5.7	215	3.3
31	---	---	---	5.9	---	1.0	---	---	---
TOTAL	516.6	---	336.38	236.0	---	46.72	137.24	---	42.83
		JULY			AUGUST			SEPTEMBER	
1	5.6	95	1.4	8.7	188	4.4	4.9	---	.40
2	5.3	85	1.2	8.7	202	4.7	2.6	10	.07
3	4.2	48	.54	8.1	202	6.2	2.3	10	.06
4	4.4	68	.81	6.4	186	3.2	2.9	10	.08
5	5.2	77	1.1	7.9	274	5.8	3.5	12	.11
6	5.0	52	.70	12	222	7.2	3.9	13	.14
7	4.0	45	.49	11	210	6.2	4.5	16	.19
8	3.8	72	.74	10	270	7.3	4.5	47	.57
9	4.5	80	.97	9.5	342	8.8	4.2	---	.40
10	8.4	72	1.6	10	198	5.3	5.1	---	.35
11	8.8	38	.90	12	132	4.3	5.0	25	.34
12	15	6190	290	11	108	3.2	4.9	---	.30
13	11	260	7.7	9.6	234	6.1	4.8	25	.32
14	7.8	99	2.1	10	210	5.7	4.7	25	.32
15	6.5	43	.75	9.3	144	3.6	4.4	---	.30
16	6.1	91	1.5	9.7	108	2.8	5.2	---	.35
17	6.1	102	1.7	9.2	106	2.6	3.5	---	.26
18	11	3990	176	7.6	103	2.1	3.3	25	.22
19	8.4	---	10	7.9	122	2.6	3.7	---	.20
20	6.9	---	5.0	8.5	161	3.7	4.6	---	.28
21	5.8	240	3.8	9.0	86	2.1	3.7	---	.10
22	6.3	231	3.9	8.0	106	2.2	3.1	---	.10
23	5.4	193	2.8	6.6	94	1.7	3.4	8	.07
24	4.6	130	1.6	5.9	94	1.5	4.8	8	.10
25	4.9	110	1.5	5.1	110	1.6	3.9	8	.08
26	6.0	212	3.5	4.1	---	.90	3.8	8	.08
27	8.2	220	4.9	4.2	---	.80	2.3	8	.05
28	8.9	192	4.9	4.8	---	.80	4.1	8	.09
29	8.2	214	4.7	4.6	---	.70	4.4	8	.10
30	8.8	144	3.4	5.3	---	.70	2.3	8	.08
31	8.8	192	4.6	5.6	---	.50	---	---	---
TOTAL	213.9	---	544.80	250.1	---	109.30	118.3	---	5.94
YEAR	6327.94		4701.35						

09306202 HORSE DRAW NEAR RANGELY, CO

LOCATION.--Lat 39°55'59", long 108°18'59", in NE¼SE¼ sec.30., T.1 S., R.97 W., Rio Blanco County, Hydrologic Unit 14050007, on right bank 1.2 mi (1.9 km) upstream from mouth, 3.4 mi (5.5 km) southwest of Square S Ranch, and 28 mi (45 km) southeast of Rangely.

DRAINAGE AREA.--1.47 mi^2 (3.81 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1977 to September 1981 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 6,280 ft (1,914 m), from topographic map.

REMARKS.--Records excellent. No regulation or diversions.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 11 ft^3/s (0.31 m^3/s) Sept. 11, 1977, gage height, 1.55 ft (0.472 m); no flow most days each year.

EXTREMES FOR CURRENT YEAR.--No flow entire year.

DISCHARGE IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

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CAL YR 1980   TOTAL 0.12    MEAN 0.000    MAX 0.11    MIN 0.00    AC-FT 0.2
WTR YR 1981   TOTAL 0.00    MEAN 0.000    MAX 0.00    MIN 0.00    AC-FT 0.00
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WATER-QUALITY RECORDS

PERIOD OF RECORD.--August 1977 to September 1981 (discontinued).

INSTRUMENTATION.--Water-quality monitor since August 1977. Pumping sediment sampler since August 1977.

REMARKS.--No flow for year.

09306203 HORSE DRAW AT MOUTH, NEAR RANGELY, CO

LOCATION.--Lat 39°56'12", long 108°17'53", in SE¼NE¼ sec.29, T.1 S., R.97 W., Rio Blanco County, Hydrologic Unit 14050007, on left bank 1,500 ft (460 m) upstream from mouth, 2.5 mi (4.0 km) southwest of Square S Ranch, and 29 mi (47 km) southeast of Rangely.

DRAINAGE AREA.--2.87 mi² (7.43 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1977 to September 1981 (discontinued).

REVISED RECORDS.--WDR CO-79-3: 1977(M), 1977.

GAGE.--Water-stage recorder. Altitude of gage is 6,110 ft (1,862 km), from topographic map.

REMARKS.--Records excellent except for periods of flow, which are fair.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 54 ft³/s (0.45 m³/s), July 24, 1977, gage height, 1.54 ft (0.469 m); no flow most of time.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 18 ft³/s (0.510 m³/s) at 0030 Oct. 15, gage height, 1.47 ft (0.448 m); no flow most of the year.

DISCHARGE IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

OCT. 14	0.06	OCT. 15	0.03	OCT. 16	0.03

CAL YR 1980	TOTAL 5.04	MEAN 0.014	MAX 0.17	MIN 0.00	AC-FT 10.0
WTR YR 1981	TOTAL 0.12	MEAN 0.00	MAX 0.06	MIN 0.00	AC-FT 0.2

WATER-QUALITY RECORDS

PERIOD OF RECORD.--July 1977 to September 1981 (discontinued).

INSTRUMENTATION.--Water-quality monitor and pumping sediment sampler October 1976 to September 1981.

REMARKS.--Flow occurred only on days shown, no monitor data available for 1981.

09306222 PICEANCE CREEK AT WHITE RIVER, CO

LOCATION.--Lat 40°05'16", long 108°14'35", in SW¼NE¼ sec.2, T.1 N., R.97 W., Rio Blanco County, Hydrologic Unit 14050006, on left bank 900 ft (270 m) upstream from mouth, 1.0 mi (1.6 km) west of White River City, and 17 mi (27 km) west of Meeker.

DRAINAGE AREA.--630 mi² (1,632 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1964 to September 1966, October 1970 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 5,705 ft (1,739 m), from topographic map. Oct. 1, 1964, to Sept. 30, 1966, and Oct. 1, 1970, to July 12, 1974, at several sites 1.1 mi (1.8 km) upstream at different datums.

REMARKS.--Records good except for winter period, which are poor. Diversions for irrigation of about 5,500 acres (22.3 km²) above station.

AVERAGE DISCHARGE.--13 years, 25.0 ft³/s (0.708 m³/s), 18,110 acre-ft/yr (22.3 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 628 ft³/s (17.8 m³/s) Sept. 7, 1978, gage height, 7.04 ft (2.146 m) on basis of slope-area measurement of peak flow; minimum daily discharge, 0.50 ft³/s (0.014 m³/s) July 21, 22, 1966.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 67 ft³/s (1.90 m³/s) at 0100 Oct. 15, gage height, 2.78 ft (0.847 m); no peak above base of 100 ft³/s (2.8 m³/s); minimum daily, 1.9 ft³/s (0.054 m³/s) June 11-17.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	49	43	41	32	34	41	3.6	3.1	4.4	5.7	2.7
2	14	48	43	41	24	32	39	3.7	2.7	5.7	5.0	2.5
3	14	47	44	40	28	30	43	6.9	2.4	6.5	4.7	2.6
4	13	45	45	40	32	30	46	9.1	2.2	5.4	3.8	2.4
5	14	47	45	41	29	29	41	6.8	2.0	4.4	3.6	2.6
6	14	47	44	40	31	30	40	5.0	2.0	4.4	3.8	2.9
7	15	46	43	35	31	35	43	4.1	2.2	4.0	4.8	3.0
8	15	45	43	35	31	33	46	3.9	2.5	3.8	4.5	3.0
9	13	44	42	34	31	34	40	3.5	2.4	3.8	3.3	3.0
10	16	42	37	35	29	34	36	2.9	2.0	4.3	3.1	3.0
11	17	46	45	33	22	36	34	2.9	1.9	4.6	3.3	3.0
12	21	47	42	33	30	35	34	3.0	1.9	10	5.2	2.6
13	21	60	39	34	35	34	30	3.0	1.9	10	8.2	2.5
14	23	59	38	32	35	34	28	3.5	1.9	6.6	6.4	2.6
15	39	56	45	34	35	33	25	3.2	1.9	5.1	5.0	3.0
16	41	51	44	32	35	33	23	3.4	1.9	5.1	4.1	3.0
17	43	48	40	34	35	36	21	3.5	1.9	7.4	3.6	3.5
18	38	46	40	33	35	37	18	3.6	2.9	11	3.6	3.7
19	37	46	40	32	34	36	13	3.9	3.0	10	3.7	3.5
20	37	45	40	32	34	35	11	4.2	3.0	8.1	3.8	3.5
21	38	44	40	32	35	35	9.4	3.8	2.9	6.2	4.0	3.7
22	36	45	40	32	35	35	7.4	3.0	2.9	3.3	4.3	3.6
23	35	46	40	33	35	34	5.4	3.0	2.9	2.7	3.6	3.3
24	37	49	40	33	35	36	6.3	3.0	3.0	2.4	3.2	3.5
25	37	46	40	32	33	36	3.8	3.0	3.0	2.7	5.0	5.6
26	37	45	41	31	34	35	3.0	3.3	3.1	3.4	5.1	5.7
27	38	42	41	32	34	39	2.8	3.3	3.2	3.8	4.8	5.5
28	47	46	40	34	33	41	2.7	3.6	3.9	7.7	4.1	5.5
29	50	44	41	33	---	41	2.9	3.5	3.8	6.9	3.7	5.5
30	49	44	40	32	---	41	3.6	3.5	4.0	3.5	3.7	5.4
31	50	---	40	33	---	41	---	3.4	---	4.9	3.6	---
TOTAL	913	1415	1285	1068	902	1084	699.3	120.1	78.4	172.1	134.3	105.9
MEAN	29.5	47.2	41.5	34.5	32.2	35.0	23.3	3.87	2.61	5.55	4.33	3.53
MAX	50	60	45	41	35	41	46	9.1	4.0	11	8.2	5.7
MIN	13	42	37	31	22	29	2.7	2.9	1.9	2.4	3.1	2.4
AC-FT	1810	2810	2550	2120	1790	2150	1390	238	156	341	266	210

CAL YR 1980 TOTAL 16048.9 MEAN 43.8 MAX 186 MIN 4.2 AC-FT 31830
WTR YR 1981 TOTAL 7977.1 MEAN 21.9 MAX 60 MIN 1.9 AC-FT 15820

09306222 PICEANCE CREEK AT WHITE RIVER, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--December 1970 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: January 1971 to June 1974, May 1975 to current year.
WATER TEMPERATURES January 1971 to September 1974, May 1975 to current year.
SUSPENDED-SEDIMENT DISCHARGE: March 1974 to current year.

INSTRUMENTATION.--Water-quality monitor since May 1974. Pumping sediment sampler since March 1974.

REMARKS.--Maximum and minimum values of specific conductance available in district office. Specific conductance values of 10,000 micromhos represent values of 10,000 micromhos or higher due to instrument limitations.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum daily, 10,000 micromhos June 18, 1981; minimum daily, 543 micromhos May 14, 1980.
WATER TEMPERATURES: Maximum, 32.0°C July 14, 1978; minimum, freezing point on many days during winter months.
SEDIMENT CONCENTRATIONS: Maximum daily, 25,000 mg/L estimated Sept. 7, 1978; 4 mg/L Oct. 2, 1977.
SEDIMENT LOADS: Maximum daily, 2,900 tons (2,630 t) estimated Sept. 7, 1978; minimum daily, 0.10 ton (0.09 t) June 22, 1978.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 10,000 micromhos June 18; minimum, 1,320 micromhos Feb. 1.
WATER TEMPERATURES: Maximum, 31.5°C June 25; minimum, 0.0°C many days during December to April.
SEDIMENT CONCENTRATIONS: Maximum daily, 3,190 mg/L July 28; minimum daily, 12 mg/L May 9.
SEDIMENT LOADS: Maximum daily, 176 tons (160 t) April 8; minimum daily, 0.15 ton (0.14 t) Sept. 12, 13.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	NITRO-GEN DIS-SOLVED (MG/L AS N)	HARD-NESS (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)
OCT											
15...	1330	35	2300	2320	8.3	9.0	9.0	--	510	58	88
NOV											
06...	1300	46	1790	1759	8.2	6.5	10.9	--	480	64	78
DEC											
11...	1330	46	1740	1750	8.1	.0	12.3	--	440	64	68
JAN											
14...	1350	32	1800	1790	8.1	.0	12.5	--	450	66	69
23...	1820	33	1720	1630	8.4	.6	12.4	1.5	430	61	67
FEB											
12...	1420	30	1680	1550	8.5	.0	12.5	--	470	65	73
MAR											
04...	1455	30	1900	1870	8.3	8.0	9.9	--	440	59	70
APR											
16...	0925	23	1990	1990	8.3	9.5	11.0	--	460	58	75
MAY											
13...	1330	E3.0	5500	5350	8.7	21.0	--	--	470	34	92
JUN											
10...	0920	2.0	5200	4810	8.6	16.5	3.6	--	520	46	98
JUL											
09...	0845	4.0	3600	3640	8.6	18.5	6.3	--	470	32	95
AUG											
05...	0950	3.6	3400	3520	8.5	16.0	5.2	--	530	48	100
26...	1345	5.0	3200	3290	8.9	23.5	9.2	.87	520	44	99
SEP											
08...	1015	2.9	3600	3770	8.4	14.0	7.0	--	400	53	65

E ESTIMATED.

09306222 PICEANCE CREEK AT WHITE RIVER, CO--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY LAB (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)
OCT 15...	360	7.0	5.3	750	450	41	1.0	16	1470	2.0	139
NOV 06...	270	5.4	3.3	580	470	26	1.1	17	1280	1.7	159
DEC 11...	260	5.4	4.1	610	320	25	1.8	18	1130	1.5	140
JAN 14...	270	5.5	2.3	590	350	21	2.2	19	1160	1.6	100
23...	280	5.9	2.3	590	340	28	1.6	17	1160	1.6	103
FEB 12...	240	4.9	2.2	560	390	19	1.4	17	1150	1.6	93.1
MAR 04...	320	6.7	2.6	640	460	33	1.8	17	1350	1.8	109
APR 16...	340	6.9	3.0	680	470	38	1.6	15	1410	1.9	87.6
MAY 13...	1300	26	4.4	2320	590	230	3.0	6.3	3660	5.0	--
JUN 10...	1100	21	4.3	1970	660	190	2.7	9.3	3300	4.5	17.8
JUL 09...	780	16	4.0	1410	530	120	2.2	4.3	2420	3.3	26.1
AUG 05...	720	14	4.7	1320	550	120	2.1	11	2350	3.2	22.8
26...	620	12	4.2	1100	560	100	1.9	10	2100	2.9	28.3
SEP 08...	810	18	6.9	1370	500	160	2.1	10	2440	3.3	19.1

DATE	NITRO- GEN, NITRATE TOTAL (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N)
OCT 15...	--	--	--	--	.33	.30	.040	--	1.4	1.40	--
NOV 06...	.40	--	.000	--	.40	.36	.150	--	.79	.94	--
DEC 11...	.81	--	.020	--	.83	.82	.020	--	.65	.67	--
JAN 14...	.86	.83	.010	.020	.87	.85	.100	.090	.77	.87	--
23...	--	--	--	--	--	.72	--	.100	--	--	.74
FEB 12...	.72	--	.010	--	.73	.77	.090	--	1.8	1.90	--
MAR 04...	.72	--	.020	--	.74	.69	.070	--	1.5	1.60	--
APR 16...	.40	--	.020	--	.42	.40	.100	--	.33	.43	--
MAY 13...	.00	--	.010	--	.01	.01	.060	--	1.7	1.80	--
JUN 10...	.01	--	.000	--	.01	.02	.140	.080	2.4	2.50	--
JUL 09...	.00	--	.000	--	.00	.02	.060	--	1.1	1.20	--
AUG 05...	.00	--	.020	--	.01	.01	.210	--	.89	1.10	--
26...	--	.10	--	.020	--	.12	--	.170	--	--	.75
SEP 08...	.54	--	.080	--	.62	.37	.060	--	8.6	8.70	--

09306222 PICEANCE CREEK AT WHITE RIVER, CO--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, ORTHO, TOTAL (MG/L AS P)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, DIS- SOLVED (UG/L AS BA)	BORON, DIS- SOLVED (UG/L AS B)	CADMIUM DIS- SOLVED (UG/L AS CD)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, DIS- SOLVED (UG/L AS FE)
OCT											
15...	1.7	.300	--	--	.050	4	100	330	0	4	40
NOV											
06...	1.3	.270	--	.040	.020	3	80	360	<1	3	10
DEC											
11...	1.5	.070	--	.050	.040	3	90	240	<1	2	10
JAN											
14...	1.7	.080	--	.060	.030	4	90	260	<1	3	20
23...	--	--	.060	--	--	--	--	240	--	--	<10
FEB											
12...	2.6	.640	--	.040	.010	5	100	240	<1	4	10
MAR											
04...	2.3	.230	--	.050	.010	3	100	280	<1	3	10
APR											
16...	.85	.150	--	.080	.000	3	100	290	<1	2	40
MAY											
13...	1.8	.150	--	.020	.020	5	200	970	0	3	70
JUN											
10...	2.5	.390	--	.110	.040	7	100	890	0	5	50
JUL											
09...	1.2	.070	--	.010	.020	6	100	720	0	4	20
AUG											
05...	1.1	.240	--	.180	.100	5	200	680	0	3	50
26...	--	--	.080	--	.010	5	--	600	0	5	30
SEP											
08...	9.3	2.20	--	.130	.370	7	200	730	0	5	250

DATE	LEAD, DIS- SOLVED (UG/L AS PB)	LITHIUM DIS- SOLVED (UG/L AS LI)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY DIS- SOLVED (UG/L AS HG)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	STRON- TIUM, DIS- SOLVED (UG/L AS SR)	ZINC, DIS- SOLVED (UG/L AS ZN)	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L)	PHENOLS (UG/L)
OCT										
15...	2	30	10	.0	--	1	--	20	.10	--
NOV										
06...	3	20	10	.0	--	1	2700	5	.10	--
DEC										
11...	0	20	9	.1	--	1	2600	<3	.00	0
JAN										
14...	0	20	7	.0	--	1	2700	10	.20	--
23...	--	--	--	--	13	--	2600	--	--	--
FEB										
12...	2	20	10	.0	--	1	2700	10	.00	--
MAR										
04...	1	30	8	.0	--	1	2700	10	.00	--
APR										
16...	3	30	10	.0	--	1	2700	20	.00	0
MAY										
13...	2	160	50	.0	--	1	1900	20	.10	--
JUN										
10...	0	130	40	.0	--	2	1700	30	.10	--
JUL										
09...	3	80	20	.1	--	1	220	30	.10	1
AUG										
05...	3	80	10	.0	--	1	2200	50	.10	--
26...	2	80	20	.0	20	1	--	0	.10	0
SEP										
08...	3	100	20	.0	--	2	1300	10	.10	--

09306222 PICEANCE CREEK AT WHITE RIVER, CO--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	BARIUM, TOTAL RECOVERABLE (UG/L AS BA)	BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	COBALT, TOTAL RECOVERABLE (UG/L AS CO)	COPPER, TOTAL RECOVERABLE (UG/L AS CU)	IRON, TOTAL RECOVERABLE (UG/L AS FE)
APR										
16...	0925	760	3	100	0	0	20	0	7	2300
JUL										
09...	0845	--	--	--	--	--	--	--	--	--
AUG										
26...	1345	710	5	--	0	0	10	--	6	1500

DATE	LEAD, TOTAL RECOVERABLE (UG/L AS PB)	LITHIUM TOTAL RECOVERABLE (UG/L AS LI)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	MERCURY TOTAL RECOVERABLE (UG/L AS HG)	MOLYBDENUM, TOTAL RECOVERABLE (UG/L AS MO)	NICKEL, TOTAL RECOVERABLE (UG/L AS NI)	SELENIUM, TOTAL (UG/L AS SE)	SILVER, TOTAL RECOVERABLE (UG/L AS AG)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN)
APR									
16...	8	30	70	.1	100	8	1	0	20
JUL									
09...	--	--	--	--	--	--	1	--	--
AUG									
26...	7	70	50	.4	12	2	1	--	20

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY)
MAR				
11...	1327	36	578	56

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2260	1710	1610	1620	1690	1820	1880	4010	3750	3370	3440	3910
2	2240	1690	1620	1610	1910	1870	1820	3810	3950	3110	3580	4700
3	2120	1680	1620	1610	1860	1850	1720	3840	3420	3050	3750	5550
4	2040	1770	1620	1610	1700	1830	1660	2950	3400	3100	3550	5570
5	2030	1760	1610	1600	1760	1830	1750	3090	3890	3340	3350	6780
6	2070	1790	---	1600	1850	1830	1820	3750	3970	3310	4060	5910
7	2100	1780	---	1620	1880	1720	1730	3750	4060	3350	3730	5040
8	2100	1790	---	1640	1790	1800	1610	3890	3440	3430	3230	4390
9	2240	1790	---	1660	1700	1830	1660	4280	3430	3420	3360	5190
10	2190	1800	1390	1620	1740	1820	1720	5020	4630	3330	4010	5000
11	2260	1740	1600	1680	1860	1780	1750	5340	5530	3240	4190	5010
12	2180	1750	1650	1720	1820	1770	1730	5210	5660	2950	4440	4440
13	2210	1710	---	1690	1700	1770	1800	5080	5530	2390	3200	6120
14	2200	1690	1690	1690	1760	1760	1870	4250	5420	2860	2980	6670
15	2140	---	1640	1730	1760	1760	1900	4470	5600	3150	3250	6160
16	2050	---	1570	1730	1800	1760	1940	4730	5620	3120	3080	4970
17	2030	---	1610	1690	1790	1730	1970	4810	5560	2930	3400	4800
18	2020	---	1600	1670	1790	1760	2080	4700	4430	2570	3550	3820
19	1980	---	1590	1700	1810	1880	2310	4240	3800	2400	3430	4110
20	1910	---	1580	1690	1800	1840	2380	3940	3760	2670	3340	4180
21	1860	---	1600	1730	1760	1820	2690	4100	3810	2870	3090	4040
22	1900	---	1610	1730	1770	1810	2810	4350	3880	3660	3180	4160
23	1950	---	1600	1720	1810	1800	3690	5010	3700	3840	4080	4290
24	1900	---	1600	1720	1830	1820	2980	5290	3800	3790	4250	4390
25	1920	---	1610	1730	1860	1860	3790	5830	3680	3280	3650	3240
26	1900	---	1610	1760	1780	1840	5090	5140	3570	5220	3190	3040
27	1900	---	1610	1830	1800	1820	5360	4660	3880	4170	3230	3060
28	1800	1590	1610	1740	1840	1710	5510	4370	3450	3710	3360	3110
29	1740	1620	1610	1750	---	1790	5180	4000	3330	3010	4010	3100
30	1740	1620	1620	1830	---	1780	4040	4060	3140	3740	4100	3120
31	1720	---	1610	1690	---	1770	---	4000	---	4030	3920	---

09306222 PICEANCE CREEK AT WHITE RIVER, CO-Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	17.5	6.5	8.5	3.0	4.5	1.5	3.0	.0	1.0	.0	7.5	1.5
2	17.0	6.0	8.0	3.0	4.5	.5	4.0	.0	.5	.0	4.5	1.5
3	17.0	4.5	7.0	3.0	7.0	3.0	4.5	.0	.5	.0	8.0	1.5
4	17.0	6.0	9.0	3.5	6.0	3.5	4.5	.5	1.0	.0	9.0	3.0
5	17.0	6.5	10.0	4.0	5.0	3.5	3.5	2.0	1.0	.0	9.0	1.5
6	17.0	6.5	8.5	4.0	4.5	2.5	4.0	.5	.5	.0	7.0	2.0
7	17.0	6.5	10.0	5.0	4.5	2.5	1.0	.0	1.0	.0	6.0	1.0
8	17.0	6.5	10.5	5.5	4.0	.5	.5	.0	1.5	.0	8.5	1.0
9	16.5	6.0	9.5	4.0	2.0	.0	.5	.0	2.0	.0	10.5	2.0
10	15.0	6.0	9.0	3.0	.5	.0	.5	.0	.5	.0	10.0	1.5
11	14.0	5.0	8.5	3.0	.5	.0	.5	.0	.5	.0	6.5	1.5
12	11.5	6.0	9.0	6.0	.5	.0	.5	.0	2.5	.0	9.0	3.0
13	12.5	8.5	7.5	5.0	.5	.0	.5	.0	5.5	.0	9.0	2.0
14	12.0	7.5	5.5	3.0	.5	.0	.5	.0	8.0	.0	9.0	2.0
15	10.0	7.0	---	---	.5	.0	.5	.0	8.5	2.5	12.0	2.5
16	8.5	6.0	---	---	1.0	.0	.5	.0	7.0	2.0	9.5	2.5
17	9.5	6.0	---	---	3.0	.0	.5	.0	7.5	2.0	8.5	2.0
18	11.0	6.5	---	---	4.0	.0	1.5	.0	8.0	2.0	10.0	2.5
19	12.5	4.5	---	---	3.5	.5	2.5	.0	5.0	1.5	11.5	7.5
20	12.0	4.5	---	---	2.5	.0	3.0	.0	4.5	1.0	8.0	5.0
21	11.5	4.5	---	---	4.0	.0	2.0	.0	6.5	.0	7.0	3.0
22	11.5	5.5	---	---	6.0	3.0	2.0	.0	8.5	.0	11.0	2.5
23	8.5	2.5	---	---	5.5	2.5	2.0	.0	9.0	.0	12.5	3.5
24	8.5	1.0	---	---	4.0	.5	2.5	.0	8.5	.5	9.0	2.5
25	8.5	1.0	---	---	5.5	2.0	4.0	.0	5.0	.5	11.5	2.5
26	6.0	3.0	---	---	6.0	2.0	.5	.0	5.0	1.5	12.0	4.5
27	6.0	3.0	---	---	5.5	1.5	.5	.0	9.0	1.5	11.0	5.0
28	6.0	1.5	3.0	.5	5.5	2.0	5.0	.5	7.5	1.0	7.0	3.5
29	7.5	1.0	4.5	.5	2.5	.5	5.0	1.0	---	---	10.0	2.5
30	8.0	2.0	6.0	2.0	3.0	.0	3.0	1.0	---	---	6.5	3.0
31	9.0	3.0	---	---	3.0	.0	1.0	.0	---	---	9.5	.0
MONTH	17.5	1.0	10.5	.5	7.0	.0	5.0	.0	9.0	.0	12.5	.0

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	12.0	2.5	24.5	8.0	25.5	12.0	22.0	17.0	27.5	16.0	27.0	11.0
2	13.5	3.5	21.0	11.5	26.5	11.5	30.5	16.5	28.5	13.5	25.5	12.5
3	9.0	1.0	14.5	8.5	20.0	13.5	29.0	14.5	28.0	13.5	25.0	13.0
4	7.0	2.5	21.0	6.5	25.0	10.5	31.0	14.0	28.0	14.0	24.5	11.0
5	11.5	.0	20.5	7.0	27.0	12.0	31.0	13.5	29.0	12.5	18.5	14.0
6	13.5	3.5	17.0	9.5	25.0	12.5	29.0	14.0	28.5	13.0	23.0	13.5
7	10.0	6.5	19.5	5.5	25.5	14.0	28.5	14.5	28.5	15.0	25.0	13.5
8	12.5	5.0	13.5	5.5	26.0	14.5	31.0	15.0	28.0	13.0	23.5	11.0
9	14.5	5.0	19.0	6.0	25.5	14.5	26.5	17.0	27.0	14.5	24.5	13.5
10	16.5	6.5	23.0	5.0	26.0	10.5	28.5	15.5	18.0	14.0	22.0	13.5
11	15.0	6.5	17.5	8.0	30.0	12.5	29.0	16.0	19.5	13.5	25.5	12.0
12	15.0	5.5	17.5	5.5	27.0	10.5	24.5	17.5	26.5	14.0	24.5	10.0
13	17.0	7.5	23.5	5.5	26.0	10.5	26.5	18.0	21.5	13.5	26.5	10.5
14	16.0	5.5	21.5	7.0	22.0	8.5	31.0	18.0	24.0	13.0	25.5	10.5
15	16.5	9.5	19.0	9.0	26.0	6.0	30.5	14.5	23.0	14.0	25.5	10.0
16	17.5	7.0	16.5	9.5	26.5	7.0	21.5	15.0	27.0	14.0	24.0	9.5
17	17.0	7.5	18.5	9.0	25.5	9.5	23.0	15.5	27.0	13.5	23.0	7.5
18	17.5	8.0	24.0	8.5	24.5	10.5	27.0	15.0	27.0	13.0	23.5	7.0
19	19.0	10.0	21.5	10.5	26.5	10.0	28.0	15.0	23.0	13.5	22.5	7.5
20	14.0	6.5	16.0	10.5	28.0	11.5	27.0	12.5	25.0	13.5	23.5	9.0
21	13.5	4.5	12.5	7.0	27.5	10.5	27.5	12.0	18.0	14.0	24.5	12.0
22	18.0	6.0	15.5	8.0	30.5	12.0	28.0	12.5	22.5	13.5	23.0	12.5
23	21.5	4.0	23.5	9.5	25.5	10.5	27.5	12.0	26.5	14.0	23.0	9.0
24	22.0	6.5	21.5	8.0	30.5	13.0	25.0	13.5	23.5	12.5	19.0	10.5
25	21.5	8.0	21.5	9.5	31.5	12.0	26.5	14.5	24.0	12.5	18.0	9.5
26	21.5	6.0	21.5	11.0	28.0	14.0	26.0	15.0	27.5	12.5	19.0	7.0
27	22.0	5.5	23.0	10.5	28.0	15.5	27.5	13.5	28.0	14.5	20.0	5.5
28	24.0	6.0	22.5	12.0	28.0	16.5	27.0	12.5	26.5	13.5	19.5	6.0
29	25.0	7.0	21.0	10.5	30.5	11.0	24.0	13.0	22.5	13.5	17.5	7.0
30	23.0	7.5	25.0	10.0	19.5	10.5	26.0	14.0	25.5	14.0	20.0	9.5
31	---	---	23.5	10.0	---	---	28.0	14.5	24.5	12.5	---	---
MONTH	25.0	.0	25.0	5.0	31.5	6.0	31.0	12.0	29.0	12.5	27.0	5.5

09306222 PICEANCE CREEK AT WHITE RIVER, CO–Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
		OCTOBER			NOVEMBER			DECEMBER	
1	14	45	1.7	49	415	55	43	---	60
2	14	---	2.0	48	339	44	43	---	60
3	14	50	1.9	47	288	37	44	---	60
4	13	50	1.8	45	349	42	45	---	65
5	14	21	.79	47	440	56	45	---	65
6	14	77	2.9	47	438	56	44	---	60
7	15	---	4.0	46	432	54	43	---	60
8	15	---	4.0	45	455	55	43	---	50
9	13	---	4.0	44	415	49	42	---	45
10	16	174	7.5	42	355	40	37	345	34
11	17	114	5.2	46	320	40	45	315	38
12	21	---	10	47	413	52	42	305	35
13	21	---	8.0	60	435	70	39	240	25
14	23	---	6.0	59	429	68	38	228	23
15	39	866	93	56	780	118	45	270	33
16	41	---	80	51	655	90	44	440	52
17	43	---	90	48	527	68	40	540	58
18	38	---	70	46	595	74	40	740	80
19	37	---	70	46	470	58	40	645	70
20	37	---	70	45	415	50	40	523	56
21	38	859	88	44	263	31	40	560	60
22	36	670	65	45	297	36	40	530	57
23	35	300	28	46	435	54	40	559	60
24	37	225	22	49	462	61	40	460	50
25	37	424	42	46	440	55	40	474	51
26	37	260	26	45	540	66	41	440	49
27	38	220	23	42	509	58	41	510	56
28	47	590	75	46	---	70	40	450	49
29	50	585	79	44	---	60	41	---	45
30	49	---	50	44	---	60	40	---	50
31	50	498	67	---	---	---	40	---	50
TOTAL	913	---	1097.79	1415	---	1727	1285	---	1606
		JANUARY			FEBRUARY			MARCH	
1	41	---	55	32	---	45	34	440	40
2	41	---	55	24	---	10	32	---	40
3	40	---	50	28	---	30	30	380	31
4	40	---	45	32	---	45	30	465	38
5	41	---	5.0	29	680	53	29	440	34
6	40	---	45	31	360	30	30	470	38
7	35	---	65	31	360	30	35	673	64
8	35	563	53	31	420	35	33	617	55
9	34	300	28	31	400	33	34	590	54
10	35	267	25	29	330	26	34	520	48
11	33	277	25	22	175	10	36	580	56
12	33	224	20	30	612	86	35	590	56
13	34	192	18	35	803	88	34	540	50
14	32	270	23	35	1000	92	34	480	44
15	34	440	40	35	620	59	33	480	43
16	32	450	39	35	795	75	33	470	42
17	34	510	47	35	750	71	36	490	48
18	33	429	38	35	710	67	37	545	54
19	32	365	32	34	645	59	36	530	52
20	32	353	30	34	660	61	35	490	46
21	32	379	33	35	680	64	35	510	48
22	32	260	22	35	670	63	35	480	45
23	33	319	28	35	710	67	34	480	44
24	33	413	37	35	680	64	36	540	52
25	32	515	44	33	740	66	36	630	61
26	31	433	36	34	700	64	35	540	51
27	32	215	19	34	620	57	39	900	95
28	34	634	60	33	480	43	41	875	97
29	33	---	40	---	---	---	41	730	81
30	32	---	20	---	---	---	41	770	85
31	33	---	30	---	---	---	41	1200	133
TOTAL	1068	---	1107.0	902	---	1493	1084	---	1725

09306222 PICEANCE CREEK AT WHITE RIVER, CO-Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
		APRIL			MAY			JUNE	
1	41	800	89	3.6	50	.49	3.1	71	.59
2	39	750	79	3.7	101	1.0	2.7	66	.48
3	43	630	73	6.9	50	.93	2.4	68	.44
4	46	700	87	9.1	200	4.9	2.2	45	.27
5	41	680	75	6.8	90	1.7	2.0	60	.32
6	40	760	82	5.0	90	1.2	2.0	76	.41
7	43	780	91	4.1	100	1.1	2.2	95	.56
8	46	1420	176	3.9	162	1.7	2.5	100	.68
9	40	980	106	3.5	12	.11	2.4	96	.62
10	36	760	74	2.9	30	.23	2.0	87	.47
11	34	880	81	2.9	29	.23	1.9	106	.54
12	34	750	69	3.0	85	.69	1.9	---	.50
13	30	640	52	3.0	94	.76	1.9	71	.36
14	28	390	29	3.5	91	.85	1.9	---	.40
15	25	370	25	3.2	60	.50	1.9	---	.40
16	23	310	19	3.4	99	.94	1.9	---	.40
17	21	300	17	3.5	110	1.1	1.9	---	.40
18	18	280	14	3.6	98	.95	2.9	61	.48
19	13	190	6.7	3.9	72	.76	3.0	49	.40
20	11	130	3.9	4.2	55	.62	3.0	44	.36
21	9.4	140	3.6	3.8	44	.45	2.9	44	.34
22	7.4	70	1.4	3.0	40	.32	2.9	40	.31
23	5.4	70	1.0	3.0	68	.55	2.9	33	.26
24	6.3	45	.77	3.0	78	.64	3.0	27	.22
25	3.8	70	.72	3.0	135	1.1	3.0	24	.19
26	3.0	25	.20	3.3	102	.91	3.1	30	.25
27	2.8	25	.19	3.3	76	.68	3.2	35	.30
28	2.7	25	.18	3.6	94	.91	3.9	46	.48
29	2.9	25	.20	3.5	95	.90	3.8	37	.38
30	3.6	70	.68	3.5	99	.94	4.0	42	.45
31	---	---	---	3.4	77	.71	---	---	---
TOTAL	699.3	---	1257.54	120.1	---	28.87	78.4	---	12.26
		JULY			AUGUST			SEPTEMBER	
1	4.4	50	.59	5.7	---	1.0	2.7	45	.33
2	5.7	75	1.2	5.0	---	1.0	2.5	45	.30
3	6.5	95	1.7	4.7	---	.50	2.6	60	.42
4	5.4	80	1.2	3.8	26	.27	2.4	33	.21
5	4.4	50	.59	3.6	30	.29	2.6	33	.23
6	4.4	58	.69	3.8	---	.50	2.9	33	.26
7	4.0	34	.37	4.8	48	.62	3.0	1050	9.7
8	3.8	50	.51	4.5	54	.66	3.0	2080	17
9	3.8	76	.78	3.3	42	.37	3.0	22	.18
10	4.3	74	.86	3.1	65	.54	3.0	22	.18
11	4.6	88	1.1	3.3	68	.61	3.0	22	.18
12	10	964	52	5.2	71	1.0	2.6	22	.15
13	10	403	11	8.2	50	1.0	2.5	22	.15
14	6.6	133	3.0	6.4	28	.48	2.6	26	.18
15	5.1	95	1.3	5.0	51	.69	3.0	26	.21
16	5.1	76	1.0	4.1	28	.31	3.0	26	.21
17	7.4	2620	85	3.6	40	.39	3.5	85	.80
18	11	1890	93	3.6	51	.50	3.7	26	.26
19	10	296	8.0	3.7	45	.45	3.5	21	.20
20	8.1	192	4.2	3.8	71	.73	3.5	70	.66
21	6.2	108	1.8	4.0	79	.85	3.7	95	.95
22	3.3	85	.76	4.3	48	.56	3.6	21	.20
23	2.7	64	.47	3.6	54	.52	3.3	21	.19
24	2.4	65	.42	3.2	51	.44	3.5	65	.61
25	2.7	103	.75	5.0	30	.41	5.6	120	1.8
26	3.4	130	1.2	5.1	50	.69	5.7	110	1.7
27	3.8	145	1.5	4.8	50	.65	5.5	110	1.6
28	7.7	3190	73	4.1	50	.55	5.5	100	1.5
29	6.9	999	21	3.7	1640	19	5.5	100	1.5
30	3.5	248	2.3	3.7	70	.70	5.4	100	1.5
31	4.9	136	1.8	3.6	45	.44	---	---	---
TOTAL	172.1	---	373.09	134.3	---	36.72	105.9	---	43.36
YEAR	7977.1		10507.63						

09306235 CORRAL GULCH BELOW WATER GULCH, NEAR RANGELY, CO

LOCATION.--Lat 39°54'22", long 108°31'56", in SE¼NW¼ sec.5, T.2 S., R.99 W., Rio Blanco County, Hydrologic Unit 14050006, on left bank 0.1 mi (0.2 km) downstream from Water Gulch and 19 mi (31 km) southeast of Rangely.

DRAINAGE AREA.--8.61 mi² (22.30 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--March 1974 to current year.

GAGE.--Water-stage recorder. Concrete control since Aug. 1, 1974. Prior to Aug. 1, 1974, water-stage recorder at different datum. Altitude of gage is 6,975 ft (2,126 m), from topographic map.

REMARKS.--Records good.

AVERAGE DISCHARGE.--7 years, 0.22 ft³/s (0.006 m³/s), 159 acre-ft/yr (0.20 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 272 ft³/s (7.70 m³/s) July 23, 1977, gage height, 3.20 ft (0.975 m), maximum gage height, 3.44 ft (1.049 m) Sept. 7, 1981 (from floodmark); no flow many days most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 264 ft³/s (7.48 m³/s) at 1800 Sept. 7, gage height, 3.44 ft (1.049 m) result of slope-area measurement of peak flow; no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.37	.11	.07	.10	.00	.00	.02	.01	.08	.10	.35	.31
2	.34	.06	.07	.10	.00	.00	.03	.23	.10	.25	.35	.36
3	.34	.20	.16	.14	.00	.00	.02	.26	.15	.13	.35	.33
4	.34	.30	.17	.18	.00	.00	.01	.12	.10	.13	.35	.27
5	.42	.30	.12	.22	.00	.00	.01	.13	.12	.12	.35	.39
6	.42	.27	.22	.20	.00	.00	.01	.13	.11	.12	.35	.33
7	.47	.30	.10	.20	.00	.00	.04	.14	.10	.10	.35	5.7
8	.39	.30	.09	.20	.00	.00	.01	.16	.10	.10	.35	.52
9	.32	.30	.17	.20	.00	.00	.00	.16	.11	.09	.35	.23
10	.32	.30	.19	.20	.00	.00	.01	.14	.11	.08	.50	.36
11	.32	.30	.20	.20	.00	.00	.00	.16	.11	.09	.52	.28
12	.36	.30	.22	.20	.00	.00	.00	.19	.10	.12	.50	.23
13	.40	.30	.22	.20	.00	.00	.00	.19	.11	.13	.53	.17
14	.40	.30	.20	.20	.00	.00	.00	.19	.13	.12	.43	.12
15	.37	.27	.19	.20	.00	.00	.02	.17	.12	.11	.84	.08
16	.37	.27	.19	.23	.00	.01	.02	.17	.11	.12	.60	.07
17	.30	.27	.19	.10	.00	.00	.02	.15	.11	.17	.50	.12
18	.33	.27	.19	.10	.00	.00	.02	.15	.11	.15	.40	.13
19	.37	.27	.19	.23	.00	.00	.02	.15	.11	.13	.30	.15
20	.38	.21	.22	.21	.00	.00	.03	.14	.11	.12	.23	.16
21	.27	.21	.19	.19	.00	.00	.03	.14	.10	.06	.29	.16
22	.21	.21	.19	.17	.00	.00	.03	.13	.10	.09	.28	.17
23	.31	.21	.19	.15	.00	.04	.02	.13	.10	.09	.28	.18
24	.30	.21	.17	.09	.00	.00	.03	.12	.10	.32	.27	.18
25	.28	.16	.20	.03	.00	.00	.04	.12	.10	.39	.29	.13
26	.28	.14	.17	.01	.00	.04	.04	.12	.10	1.1	.25	.14
27	.32	.19	.17	.01	.00	.01	.04	.12	.10	.35	.28	.18
28	.30	.19	.17	.00	.00	.00	.00	.13	.12	.35	.27	.19
29	.30	.08	.15	.00	---	.00	.02	.15	.11	.35	.47	.18
30	.25	.07	.15	.00	---	.00	.01	.13	.11	.35	.32	.18
31	.22	---	.10	.00	---	.01	---	.11	---	.35	.37	---
TOTAL	10.37	6.87	5.22	4.26	.00	.11	.55	4.54	3.24	6.28	11.87	12.00
MEAN	.33	.23	.17	.14	.000	.004	.018	.15	.11	.20	.38	.40
MAX	.47	.30	.22	.23	.00	.04	.04	.26	.15	1.1	.84	5.7
MIN	.21	.06	.07	.00	.00	.00	.00	.01	.08	.06	.23	.07
AC-FT	21	14	10	8.4	.00	.2	1.1	9.0	6.4	12	24	24

CAL YR 1980 TOTAL 200.77 MEAN .55 MAX 2.1 MIN .03 AC-FT 398
WTR YR 1981 TOTAL 65.31 MEAN .18 MAX 5.7 MIN .00 AC-FT 130

09306235 CORRAL GULCH BELOW WATER GULCH, NEAR RANGELY, CC--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--March 1974 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: April 1974 to current year.
WATER TEMPERATURE: April 1974 to current year.
SUSPENDED-SEDIMENT DISCHARGE: October 1974 to current year.

INSTRUMENTATION.--Water-quality monitor since April 1974. Pumping sediment sampler since October 1974.

REMARKS.--Daily maximum and minimum specific-conductance data available in district office.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 6,490 micromhos Dec. 19, 1981; minimum, 230 micromhos Mar. 20, 1978.
WATER TEMPERATURES: Maximum, 33.5°C June 11, 1981; minimum, freezing point many days during winter months each year.
SEDIMENT CONCENTRATIONS: Maximum daily, 17,800 mg/L July 26, 1981; no flow many days during 1974-78, 1981.
SEDIMENT LOADS: Maximum daily, 162 tons (147 t) May 20, 1979; no flow many days during 1974-78, Dec. 15, 1979, 1981.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 6,490 micromhos Dec. 19; minimum, 590 micromhos July 2.
WATER TEMPERATURES: Maximum, 33.5°C June 11; minimum, 0.0°C several days during October to May.
SEDIMENT CONCENTRATIONS: Maximum daily, 17,800 mg/L July 26; minimum daily, no flow many days during year.
SEDIMENT LOADS: Maximum daily, 149 tons (135 t) July 26; minimum daily, no flow many days during year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS) (00061)	SPECIFIC CONDUCTANCE (UMHOS) (00095)	SPECIFIC CONDUCTANCE LAB (UMHOS) (90095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	TURBIDITY (NTU) (00076)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN DEMAND, CHEMICAL (HIGH LEVEL) (MG/L) (00340)	COLIFORM, TOTAL, IMMED. (COLS. PER 100 ML) (31501)	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ML) (31625)
DEC											
11...	1100	.20	1140	1160	7.8	.0	--	12.0	--	--	--
APR											
01...	1403	.20	--	--	--	14.5	--	--	--	--	--
29...	1020	.04	1100	1080	8.0	19.0	1.1	--	130	<2	K1
JUL											
09...	1030	6.0	1140	1100	8.1	21.5	--	7.3	--	--	--
26...	1650	4.9	--	--	--	--	--	--	--	--	--
26...	1700	4.9	630	642	7.8	--	--	--	--	--	--

DATE	HARDNESS (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	SODIUM ADSORPTION RATIO (00931)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	ALKALINITY LAB (MG/L AS CACO3) (90410)	SULFIDE TOTAL (MG/L AS S) (00745)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)
DEC											
11...	480	93	60	86	1.7	1.4	340	--	280	7.0	.3
APR											
01...	--	--	--	--	--	--	--	--	--	--	--
29...	410	73	55	83	1.8	1.0	290	.2	290	8.1	.3
JUL											
09...	430	74	60	91	1.9	2.1	300	--	300	7.7	.2
26...	--	--	--	--	--	--	--	--	--	--	--
26...	200	50	18	56	1.7	4.6	91	--	190	21	.2

DATE	BROMIDE DISSOLVED (MG/L AS BR) (71870)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 105 DEG. C, DISSOLVED (MG/L) (00515)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	SOLIDS, DISSOLVED (TONS PER AC-FT) (70303)	SOLIDS, DISSOLVED (TONS PER DAY) (70302)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, ORGANIC DISSOLVED (MG/L AS N) (00607)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)
DEC											
11...	--	22	--	--	752	1.0	.41	--	--	--	--
APR											
01...	--	--	--	--	--	--	--	--	--	--	--
29...	.00	19	755	712	706	.97	.08	.87	.050	1.5	1.5
JUL											
09...	--	20	--	--	737	1.0	11.9	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--
26...	--	10	--	--	405	.55	5.4	--	--	--	--

K BASED ON NON-IDEAL COLONY COUNT.

09306235 CORRAL GULCH BELOW WATER GULCH, NEAR RANGELY, CO--Continued

WATER-QUALITY RECORDS, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	PHOS- PHORUS, DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P) (00671)	ANTI- MONY, TOTAL (UG/L AS SB) (01097)	ARSENIC DIS- SOLVED (UG/L AS AS) (01000)	BORON, DIS- SOLVED (UG/L AS B) (01020)	MERCURY DIS- SOLVED (UG/L AS HG) (71890)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681)	CYANIDE TOTAL (MG/L AS CN) (00720)	PHENOLS (UG/L) (32730)
DEC										
11...	--	--	--	--	70	--	--	8.8	--	--
APR										
01...	--	--	--	--	--	--	--	--	--	--
29...	.020	.020	0	4	90	.0	4	15	.00	2
JUL										
09...	--	--	--	--	160	--	--	7.2	--	--
26...	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	230	--	--	24	--	--

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
APR					
01...	1403	.20	1360	.73	99

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1110	1120	1110	---			---	1090	1050	1040		
2	1100	1120	1100	---			---	1420	1070	994		
3	1110	1120	1100	---			---	---	1060	1120		
4	1110	1110	1100	---			---	---	1060	1120		
5	1110	1120	1090	---			---	1110	1060	1110		
6	1100	1110	1090	1120			---	1080	1050	1090		
7	1100	1120	1090	1070			---	1080	1050	1090		
8	1100	1120	1110	1070			---	1110	1050	1080		
9	1100	1120	1100	2960			---	1070	1050	1090		
10	1100	1120	1120	3010			---	1070	1050	1070		
11	1100	1110	1080	1060			---	1030	1050	---		
12	1100	1110	1080	1150			---	1050	1060	---		
13	1100	1120	1080	1170			---	1090	1050	---		
14	1090	1130	1090	1100			---	1090	1050	---		
15	1090	1170	1060	1100			---	1080	1060	---		
16	1080	1160	1060	1100			---	1060	1070	---		
17	1090	1160	1070	---			---	1060	1080	---		
18	1100	1150	1080	---			---	1060	1070	---		
19	1100	1140	2710	1070			---	1090	1070	---		
20	1090	1130	4090	1060			---	1070	1080	---		
21	1090	1140	1080	1130			---	1080	1070	1070		
22	1110	1120	1070	1090			---	1070	1080	1090		
23	1130	1120	1070	1080			---	1060	1080	1090		
24	1120	1110	1080	1090			---	1070	1070	1050		
25	1130	1130	1060	---			---	1080	1070	1100		
26	1120	1120	1050	1120			---	1060	1110	---		
27	1120	1120	1060	1180			---	1040	1090	---		
28	1120	1110	1050	---			---	1000	1030	---		
29	1120	1110	1050	---			1080	1040	1060	---		
30	1120	1100	1080	---			1090	1030	1050	---		
31	1120	---	1070	---			---	1040	---	---		

09306235 CORRAL GULCH BELOW WATER GULCH, NEAR RANGELY, CO--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	18.0	4.5	9.5	.5	2.5	.0	---	---				
2	16.0	3.5	9.0	1.0	3.5	.0	---	---				
3	16.5	3.5	8.5	1.0	4.5	2.0	---	---				
4	17.0	3.5	10.0	2.0	4.5	2.0	---	---				
5	16.5	4.0	10.0	2.0	4.5	.0	---	---				
6	17.0	4.0	10.5	1.5	4.5	.5	.0	.0				
7	17.0	4.5	9.5	2.5	4.5	.0	.0	.0				
8	16.5	4.0	9.5	1.5	1.5	.0	.0	.0				
9	15.5	4.0	8.5	1.5	.5	.0	1.0	.0				
10	14.5	3.0	8.5	1.5	.5	.0	2.5	.0				
11	15.0	3.0	9.5	1.0	2.0	.0	.5	.0				
12	11.5	4.0	9.0	3.5	2.5	.0	1.0	.0				
13	14.0	5.5	5.5	2.0	1.5	.0	.0	.0				
14	11.0	4.0	4.5	.0	2.5	.0	.0	.0				
15	9.5	3.0	2.0	.0	3.0	.0	2.0	.0				
16	8.0	.0	2.0	.0	3.5	1.0	.0	.0				
17	8.5	.5	2.0	.0	3.5	.5	2.0	.0				
18	11.5	3.0	2.0	.0	3.0	.0	1.0	.0				
19	11.5	1.5	2.5	.0	3.5	.0	.0	.0				
20	11.5	2.0	2.5	.0	4.0	.5	1.5	.0				
21	11.0	1.5	2.5	.0	3.5	.0	2.0	.0				
22	10.0	1.0	3.5	.0	4.0	1.5	.0	.0				
23	7.5	.0	4.0	1.0	3.5	.0	.0	.0				
24	8.5	.0	3.5	1.0	3.0	.0	.5	.0				
25	9.0	.0	1.5	.0	4.0	.0	.0	.0				
26	7.5	1.0	2.5	.0	4.5	.5	.0	.0				
27	5.0	.5	3.0	.0	5.0	.5	.0	.0				
28	7.0	.0	4.0	.5	4.5	.5	---	---				
29	7.5	.0	3.5	.0	2.5	.0	---	---				
30	9.0	.5	4.0	1.5	2.0	.0	---	---				
31	9.5	.5	---	---	3.5	.0	---	---				
MONTH	18.0	.0	10.5	.0	5.0	.0	2.5	.0				

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	---	---	26.5	3.0	29.0	5.0	19.5	13.0				
2	---	---	23.5	5.5	30.0	4.5	24.5	11.5				
3	---	---	---	---	20.0	7.0	30.0	9.0				
4	---	---	24.0	1.5	29.5	5.5	32.0	9.0				
5	---	---	25.0	2.0	32.0	5.5	33.0	8.5				
6	---	---	24.5	3.5	32.5	6.5	31.0	9.0				
7	---	---	22.0	.0	28.0	8.0	30.0	10.5				
8	---	---	16.5	.5	30.5	8.5	32.5	9.5				
9	---	---	18.5	2.5	32.0	8.0	28.5	11.0				
10	---	---	25.5	.5	29.5	7.5	31.0	9.5				
11	---	---	15.0	.5	33.5	6.5	---	---				
12	---	---	22.5	2.5	30.5	6.5	---	---				
13	---	---	24.0	1.0	29.0	7.0	---	---				
14	---	---	25.0	2.0	21.5	3.0	---	---				
15	---	---	24.0	3.5	28.0	.5	---	---				
16	---	---	21.5	5.0	30.0	2.0	---	---				
17	---	---	14.0	4.0	28.0	5.0	---	---				
18	---	---	22.0	4.0	30.0	4.0	---	---				
19	---	---	19.5	3.5	30.5	5.5	---	---				
20	---	---	15.5	3.0	31.0	6.5	---	---				
21	---	---	19.5	1.0	30.0	7.5	30.0	9.0				
22	---	---	21.5	3.5	32.0	6.5	30.0	8.5				
23	---	---	24.0	5.0	30.5	8.0	29.5	7.5				
24	---	---	27.0	3.0	32.5	7.5	28.0	9.0				
25	---	---	23.0	4.5	33.0	7.5	30.5	10.0				
26	---	---	19.0	6.5	32.0	10.5	---	---				
27	---	---	27.5	6.5	30.5	12.0	---	---				
28	---	---	24.0	6.5	29.5	11.5	---	---				
29	27.0	1.5	28.0	6.0	32.0	9.0	---	---				
30	25.5	3.0	30.5	5.0	32.0	8.5	---	---				
31	---	---	25.5	9.0	---	---	---	---				
MONTH	27.0	1.5	30.5	.0	33.5	.5	33.0	7.5				

09306235 CORRAL GULCH BELOW WATER GULCH, NEAR RANGELY, CO—Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
		OCTOBER			NOVEMBER			DECEMBER	
1	.37	---	---	.11	---	.02	.07	53	.01
2	.34	32	.03	.06	---	.02	.07	53	.01
3	.34	62	.06	.20	---	.04	.16	57	.02
4	.34	33	.03	.30	---	.05	.17	43	.02
5	.42	52	.06	.30	---	.05	.12	80	.03
6	.42	---	.05	.27	68	.05	.22	95	.06
7	.47	---	.05	.30	---	.05	.10	42	.01
8	.39	---	.03	.30	---	.05	.09	23	.00
9	.32	16	.01	.30	---	.05	.17	43	.02
10	.32	16	.01	.30	---	.05	.19	63	.03
11	.32	10	.00	.30	---	.05	.20	47	.03
12	.36	14	.01	.30	65	.05	.22	65	.04
13	.40	11	.01	.30	90	.07	.22	26	.02
14	.40	15	.02	.30	75	.06	.20	42	.02
15	.37	22	.03	.27	263	.21	.19	30	.02
16	.37	16	.02	.27	262	.18	.19	32	.02
17	.30	---	.03	.27	110	.08	.19	26	.01
18	.33	---	.03	.27	180	.13	.19	36	.02
19	.37	---	.03	.27	---	.10	.19	69	.04
20	.38	---	.03	.21	---	.10	.22	69	.04
21	.27	---	.04	.21	---	.10	.19	66	.03
22	.21	45	.03	.21	---	.10	.19	79	.04
23	.31	---	.03	.21	---	.10	.19	48	.02
24	.30	---	.03	.21	---	.10	.17	75	.03
25	.28	---	.03	.16	---	.05	.20	65	.04
26	.28	---	.03	.14	---	---	.17	58	.03
27	.32	---	.03	.19	---	---	.17	48	.02
28	.30	---	.03	.19	---	.05	.17	45	.02
29	.30	---	.03	.08	---	.02	.15	115	.05
30	.25	---	.03	.07	---	.02	.15	105	.04
31	.22	---	.03	---	---	---	.10	170	.05
TOTAL	10.37	---	0.88	6.87	---	2.00	5.22	---	0.84
		JANUARY			FEBRUARY			MARCH	
1	.10	230	.06	.00			.00		---
2	.10	210	.06	.00			.00		---
3	.14	140	.05	.00			.00		---
4	.18	39	.02	.00			.00		---
5	.22	70	.04	.00			.00		---
6	.20	300	.16	.00			.00		---
7	.20	260	.14	.00			.00		---
8	.20	280	.15	.00			.00		---
9	.20	270	.15	.00			.00		---
10	.20	240	.13	.00			.00		---
11	.20	200	.11	.00			.00		---
12	.20	100	.05	.00			.00		---
13	.20	---	.05	.00			.00		---
14	.20	---	.05	.00			.00		---
15	.20	---	.05	.00			.00		---
16	.23	---	.05	.00			.01		.00
17	.10	---	.03	.00			.00		---
18	.10	---	.03	.00			.00		---
19	.23	---	.05	.00			.00		---
20	.21	---	.05	.00			.00		---
21	.19	---	.05	.00			.00		---
22	.17	130	.06	.00			.00		---
23	.15	---	.03	.00			.04		.00
24	.09	---	.02	.00			.00		---
25	.03	---	.01	.00			.00		---
26	.01	---	.00	.00			.04		.00
27	.01	---	.00	.00			.01		.00
28	.00	---	---	.00			.00		---
29	.00	---	---	---			.00		---
30	.00	---	---	---			.00		---
31	.00	---	---	---			.01		.00
TOTAL	4.26	---	1.65	0.00			0.11		0.00

09306235 CORRAL GULCH BELOW WATER GULCH, NEAR RANGELY, CO-Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
		APRIL			MAY			JUNE	
1	.02	---	.00	.01	---	.00	.08	22	.00
2	.03	---	.00	.23	4040	6.0	.10	50	.01
3	.02	---	.00	.26	---	5.0	.15	164	.12
4	.01	---	.00	.12	---	.05	.10	37	.00
5	.01	---	.00	.13	79	.03	.12	39	.01
6	.01	---	.00	.13	129	.05	.11	38	.01
7	.04	---	.00	.14	---	.03	.10	44	.01
8	.01	---	.00	.16	---	.02	.10	43	.01
9	.00	---	---	.16	---	.02	.11	31	.00
10	.01	---	.00	.14	---	.02	.11	25	.00
11	.00	---	---	.16	---	.04	.11	40	.01
12	.00	---	---	.19	34	.02	.10	32	.00
13	.00	---	---	.19	---	.02	.11	34	.01
14	.00	---	---	.19	---	.02	.13	28	.00
15	.02	---	.00	.17	---	.02	.12	43	.01
16	.02	---	.00	.17	---	.02	.11	31	.00
17	.02	---	.00	.15	---	.02	.11	---	.01
18	.02	---	.00	.15	---	.02	.11	---	.01
19	.02	---	.00	.15	---	.02	.11	---	.01
20	.03	---	.00	.14	---	.02	.11	---	.02
21	.03	---	.00	.14	---	.02	.10	---	.02
22	.03	---	.00	.13	---	.02	.10	---	.02
23	.02	---	.00	.13	---	.02	.10	---	.03
24	.03	---	.00	.12	---	.02	.10	---	.03
25	.04	---	.00	.12	---	.02	.10	85	.02
26	.04	---	.00	.12	---	.02	.10	3050	4.8
27	.04	---	.00	.12	1740	4.0	.10	---	.03
28	.00	---	---	.13	257	.09	.12	---	.03
29	.02	55	.00	.15	56	.02	.11	---	.02
30	.01	60	.00	.13	37	.01	.11	---	.02
31	---	---	---	.11	28	.00	---	---	---
TOTAL	0.55	---	0.00	4.54	---	15.68	3.24	---	5.27
		JULY			AUGUST			SEPTEMBER	
1	.10	55	.01	.35	---	.10	.31		.10
2	.25	6770	50	.35	---	.10	.36		.10
3	.13	---	.03	.35	---	.10	.33		.10
4	.13	---	.03	.35	---	.10	.27		.10
5	.12	---	.03	.35	---	.10	.39		.20
6	.12	---	.03	.35	---	.10	.33		.20
7	.10	---	.03	.35	---	.10	5.7		740
8	.10	---	.03	.35	---	.10	.52		.40
9	.09	210	.05	.35	---	.10	.23		.20
10	.08	100	.02	.50	---	.10	.36		15
11	.09	52	.01	.52	---	.20	.28		.20
12	.12	160	.05	.50	265	.36	.23		.20
13	.13	---	.05	.53	---	.20	.17		.10
14	.12	105	.03	.43	310	.36	.12		.10
15	.11	640	.19	.84	---	100	.08		.10
16	.12	---	.05	.60	---	.50	.07		.10
17	.17	---	.05	.50	---	.40	.12		.50
18	.15	---	.05	.40	---	.30	.13		.10
19	.13	---	.05	.30	134	.11	.15		.10
20	.12	---	.05	.23	---	.10	.16		.10
21	.06	60	.00	.29	---	.10	.16		.10
22	.09	35	.00	.28	---	.10	.17		.10
23	.09	40	.00	.28	---	.10	.18		.10
24	.32	2610	5.0	.27	---	.10	.18		.10
25	.39	---	.10	.29	---	.10	.13		.10
26	1.1	17800	149	.25	---	.10	.14		.10
27	.35	---	.10	.28	---	.10	.18		.10
28	.35	---	.10	.27	134	.10	.19		.10
29	.35	---	.10	.47	3410	20	.18		.10
30	.35	---	.10	.32	---	2.0	.18		.10
31	.35	---	.10	.37	---	5.0	---		
TOTAL	6.28	---	205.44	11.87	---	131.33	12.00		759.00
YEAR	65.31		1122.09						

09306237 DRY FORK NEAR RANGELY, CO

LOCATION.--Lat 39°55'20", long 108°31'55", in SE¼NE¼ sec.32, T.1 S., R.99 W., Rio Blanco County, Hydrologic Unit 14050007, on left bank 1.7 mi (2.7 km) upstream from mouth and 18 mi (29 km) southeast of Rangely.

DRAINAGE AREA.--2.74 mi² (7.10 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--March 1974 to current year.

REVISED RECORDS.--WDR CO-78-3: 1978(M).

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 7,030 ft (2,141 m), from topographic map.

REMARKS.--Records good, except those for days of flow, which are poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 202 ft³/s (5.72 m³/s) July 23, 1977, gage height, 3.16 ft (0.963 m), from slope-area measurement of peak flow; no flow most of each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 21 ft³/s (0.595 m³/s) at 1200 Sept. 10, gage height, 2.74 ft (0.835 m); no flow most days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2	.00	.00	.00	.00	.00	.00	.00	.09	.00	.17	.00	.00
3	.00	.00	.00	.00	.00	.00	.00	.00	.01	.00	.00	.00
4	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
7	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.66
8	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
9	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.38
11	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
12	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.00
13	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
14	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.07	.00
16	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
17	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
18	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
19	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
20	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
21	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
22	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
23	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
24	.00	.00	.00	.00	.00	.00	.00	.00	.00	.09	.00	.00
25	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
26	.00	.00	.00	.00	.00	.00	.00	.00	.03	.21	.00	.00
27	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
28	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
29	.00	.00	.00	.00	---	.00	.00	.00	.00	.00	.00	.00
30	.00	.00	.00	.00	---	.00	.00	.00	.00	.00	.00	.00
31	.00	---	.00	.00	---	.00	---	.00	---	.00	.00	---
TOTAL	.00	.00	.00	.00	.00	.00	.00	.09	.04	.47	.12	1.04
MEAN	.000	.000	.000	.000	.000	.000	.000	.003	.001	.015	.004	.035
MAX	.00	.00	.00	.00	.00	.00	.00	.09	.03	.21	.07	.66
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT	.00	.00	.00	.00	.00	.00	.00	.2	.08	.9	.2	2.1

CAL YR 1980 TOTAL 1.27 MEAN .003 MAX .37 MIN .00 AC-FT 2.5
WTR YR 1981 TOTAL 1.76 MEAN .005 MAX .66 MIN .00 AC-FT 3.5

09306237 DRY FORK NEAR RANGELY, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--March 1974 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: April 1974 to current year.
WATER TEMPERATURE: April 1974 to current year.
SUSPENDED-SEDIMENT DISCHARGE: October 1974 to current year.

INSTRUMENTATION.--Water-quality monitor since April 1974. Pumping sediment sampler since October 1974.

REMARKS.--Flow occurred only on days shown, no monitor data available.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 1,030 micromhos Sept. 3, 1977; minimum, 243 micromhos May 16, 1979.
WATER TEMPERATURES: Maximum, 22.0°C July 23, 1977; minimum, 5.0°C Aug. 26, 1977.
SEDIMENT CONCENTRATIONS: Maximum, daily, 18,500 mg/L July 26, 1981; no flow many days during each year.
SEDIMENT LOADS: Maximum daily, 100 tons (91 t) estimated Sept. 7, 1981; no flow many days during each year.

EXTREMES FOR CURRENT YEAR.--
SEDIMENT CONCENTRATIONS: Maximum daily, 18,500 mg/L July 26; minimum, no flow many days during year.
SEDIMENT LOADS: Maximum daily, 100 tons (91 t) estimated Sept. 7; minimum, no flow many days during year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	HARD-NESS (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO
JUL											
26...	1550	.09	--	--	--	27.0	--	--	--	--	--
27...	1550	.84	560	572	7.8	--	190	49	17	41	1.3

DATE	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	BORON, DIS-SOLVED (UG/L AS B)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C)
JUL											
26...	--	--	--	--	--	--	--	--	--	--	--
27...	4.4	90	170	15	.2	11	362	.49	.82	220	18

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
JUL					
26...	1550	.09	124000	28	85

09306237 DRY FORK NEAR RANGELY, CO--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
		APRIL			MAY			JUNE	
1	.00			.00		---	.00		---
2	.00			.09		.20	.00		---
3	.00			.00		---	.01		.05
4	.00			.00		---	.00		---
5	.00			.00		---	.00		---
6	.00			.00		---	.00		---
7	.00			.00		---	.00		---
8	.00			.00		---	.00		---
9	.00			.00		---	.00		---
10	.00			.00		---	.00		---
11	.00			.00		---	.00		---
12	.00			.00		---	.00		---
13	.00			.00		---	.00		---
14	.00			.00		---	.00		---
15	.00			.00		---	.00		---
16	.00			.00		---	.00		---
17	.00			.00		---	.00		---
18	.00			.00		---	.00		---
19	.00			.00		---	.00		---
20	.00			.00		---	.00		---
21	.00			.00		---	.00		---
22	.00			.00		---	.00		---
23	.00			.00		---	.00		---
24	.00			.00		---	.00		---
25	.00			.00		---	.00		---
26	.00			.00		---	.03		.05
27	.00			.00		---	.00		---
28	.00			.00		---	.00		---
29	.00			.00		---	.00		---
30	.00			.00		---	.00		---
31	---			.00		---	---		
TOTAL	0.00			0.09		0.20	0.04		0.10
		JULY			AUGUST			SEPTEMBER	
1	.00	---	---	.00		---	.00		---
2	.17	---	40	.00		---	.00		---
3	.00	---	---	.00		---	.00		---
4	.00	---	---	.00		---	.00		---
5	.00	---	---	.00		---	.00		---
6	.00	---	---	.00		---	.00		---
7	.00	---	---	.00		---	.66		100
8	.00	---	---	.00		---	.00		---
9	.00	---	---	.00		---	.00		---
10	.00	---	---	.00		---	.38		80
11	.00	---	---	.00		---	.00		---
12	.00	---	---	.05		10	.00		---
13	.00	---	---	.00		---	.00		---
14	.00	---	---	.00		---	.00		---
15	.00	---	---	.07		10	.00		---
16	.00	---	---	.00		---	.00		---
17	.00	---	---	.00		---	.00		---
18	.00	---	---	.00		---	.00		---
19	.00	---	---	.00		---	.00		---
20	.00	---	---	.00		---	.00		---
21	.00	---	---	.00		---	.00		---
22	.00	---	---	.00		---	.00		---
23	.00	---	---	.00		---	.00		---
24	.09	---	20	.00		---	.00		---
25	.00	---	---	.00		---	.00		---
26	.21	18500	61	.00		---	.00		---
27	.00	---	---	.00		---	.00		---
28	.00	---	---	.00		---	.00		---
29	.00	---	---	.00		---	.00		---
30	.00	---	---	.00		---	.00		---
31	.00	---	---	.00		---	---		
TOTAL	0.47	---	121	0.12		20	1.04		180
YEAR	1.76		321.30						

09306240 BOX ELDER GULCH NEAR RANGELY, CO

LOCATION.--Lat 39°53'18", long 108°31'40", in NE¼SW¼ sec.8, T.2 S., R.99 W., Rio Blanco County, Hydrologic Unit 14050006, on left bank 30 ft (9 m) upstream from unnamed tributary, 4.1 mi (6.6 km) upstream from mouth, and 20 mi (32 km) southeast of Rangely.

DRAINAGE AREA.--9.21 mi² (23.85 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--March 1974 to current year.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 6,955 ft (2,120 m), from topographic map.

REMARKS.--Records excellent except for days of flow, which are poor. No diversion or regulation above station.

AVERAGE DISCHARGE.--7 years, 0.24 ft³/s (0.007 m³/s), 174 acre-ft/yr (0.21 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 332 ft³/s (9.40 m³/s) Sept. 7, 1981, gage height, 4.37 ft (1.332 m), result of slope-area measurement of peak flow; no flow most days each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 332 ft³/s (9.40 m³/s) at 1530 Sept. 7, gage height, 4.37 ft (1.332 m) result of slope-area measurement of peak flow; no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
3	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
7	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	11
8	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
9	.00	.00	.00	.00	.00	.00	.00	.00	.00	.75	.00	.00
10	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.08
11	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
12	.00	.00	.00	.00	.00	.02	.00	.00	.00	.00	.00	.00
13	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
14	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.00
15	.01	.00	.00	.00	.00	.01	.00	.00	.00	.00	.20	.00
16	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
17	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
18	.00	.00	.00	.00	.01	.00	.00	.00	.00	.00	.00	.00
19	.00	.00	.00	.00	.01	.01	.00	.00	.00	.00	.00	.00
20	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
21	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
22	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
23	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
24	.00	.00	.00	.00	.00	.00	.00	.00	.00	.04	.00	.00
25	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.00	.00
26	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
27	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
28	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
29	.00	.00	.00	.00	---	.00	.00	.00	.00	.00	.00	.00
30	.00	.00	.00	.00	---	.00	.00	.00	.00	.00	.72	.00
31	.00	---	.00	.00	---	.00	---	.00	---	.00	.00	---
TOTAL	.01	.00	.00	.00	.02	.04	.00	.00	.00	.80	.97	11.08
MEAN	.000	.000	.000	.000	.001	.001	.000	.000	.000	.026	.031	.37
MAX	.01	.00	.00	.00	.01	.02	.00	.00	.00	.75	.72	11
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT	.02	.00	.00	.00	.04	.08	.00	.00	.00	1.6	1.9	22

CAL YR 1980	TOTAL 234.23	MEAN .64	MAX 8.2	MIN .00	AC-FT 465
WTR YR 1981	TOTAL 12.92	MEAN .035	MAX 11	MIN .00	AC-FT 26

NOTE.--NO GAGE-HEIGHT RECORD AUG. 31 TO SEPT. 7.

09306240 BOX ELDER GULCH NEAR RANGELY, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--April 1974 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: April 1974 to current year.
WATER TEMPERATURE: April 1974 to current year.
SUSPENDED-SEDIMENT DISCHARGE: March 1975 to current year.

INSTRUMENTATION.--Water-quality monitor since April 1974. Pumping sediment sampler since March 1975.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 980 micromhos June 21, 1979; minimum, 202 micromhos Mar. 22, 1978.
WATER TEMPERATURES: Maximum, 32.0°C June 20, 1978, June 29, 1979; minimum, 0.0°C Mar. 21-23, 1978, Apr. 20, May 7, 1979, Feb. 17, 18, Apr. 19, 1980.
SEDIMENT CONCENTRATIONS: Maximum daily, 33,100 mg/L Sept. 7, 1981; no flow many days each year.
SEDIMENT LOADS: Maximum daily, 6,750 tons (6,120 t) Sept. 7, 1981; no flow many days each year.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, not determined; minimum, not determined.
WATER TEMPERATURES: Maximum, not determined; minimum, not determined.
SEDIMENT CONCENTRATIONS: Maximum daily, 33,100 mg/L Sept. 7, no flow many days during year.
SEDIMENT LOADS: Maximum daily, 6,750 tons (6,120 t) Sept. 7; no flow many days during year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	SPECIFIC CONDUCTANCE LAB (UMHOS)	PH (UNITS)	HARDNESS (MG/L AS CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO
JUL 25...	1000	E.01	650	662	8.2	250	51	30	49	1.3

DATE	POTASSIUM, DISSOLVED (MG/L AS K)	ALKALINITY LAB (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	BORON, DISSOLVED (UG/L AS B)	CARBON, ORGANIC DISSOLVED (MG/L AS C)
JUL 25...	2.6	200	140	5.4	.2	17	414	.56	80	9.1

E ESTIMATED.

09306240 BOX ELDER GULCH NEAR RANGELY, CO--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1										---		---
2										---		---
3										---		---
4										---		---
5										---		---
6										---		---
7										220		---
8										---		---
9										---		---
10										---		863
11										---		---
12										---		---
13										---		---
14										---		---
15										---		---
16										---		---
17										---		---
18										---		---
19										---		---
20										---		---
21										---		---
22										---		---
23										---		---
24										---		---
25										---		---
26										---		---
27										---		---
28										---		---
29										---		---
30										---		---
31										---		---
MEAN										220		863

WTR YR 1981 MEAN 542 MAX 863 MIN 220

09306240 BOX ELDER GULCH NEAR RANGELY, CO--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1							---	---			---	---
2							---	---			---	---
3							---	---			---	---
4							---	---			---	---
5							---	---			---	---
6							---	---			---	---
7							15.0	15.0			---	---
8							---	---			---	---
9							---	---			---	---
10							---	---			14.5	12.0
11							---	---			---	---
12							---	---			---	---
13							---	---			---	---
14							---	---			---	---
15							---	---			---	---
16							---	---			---	---
17							---	---			---	---
18							---	---			---	---
19							---	---			---	---
20							---	---			---	---
21							---	---			---	---
22							---	---			---	---
23							---	---			---	---
24							---	---			---	---
25							---	---			---	---
26							---	---			---	---
27							---	---			---	---
28							---	---			---	---
29							---	---			---	---
30							---	---			---	---
31							---	---			---	---
MONTH							15.0	15.0			14.5	12.0
YEAR	15.0	12.0										

09306240 BOX ELDER GULCH NEAR RANGELY, CO--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
		OCTOBER			NOVEMBER			DECEMBER	
1	.00		---	.00			.00		
2	.00		---	.00			.00		
3	.00		---	.00			.00		
4	.00		---	.00			.00		
5	.00		---	.00			.00		
6	.00		---	.00			.00		
7	.00		---	.00			.00		
8	.00		---	.00			.00		
9	.00		---	.00			.00		
10	.00		---	.00			.00		
11	.00		---	.00			.00		
12	.00		---	.00			.00		
13	.00		---	.00			.00		
14	.00		---	.00			.00		
15	.01		.01	.00			.00		
16	.00		---	.00			.00		
17	.00		---	.00			.00		
18	.00		---	.00			.00		
19	.00		---	.00			.00		
20	.00		---	.00			.00		
21	.00		---	.00			.00		
22	.00		---	.00			.00		
23	.00		---	.00			.00		
24	.00		---	.00			.00		
25	.00		---	.00			.00		
26	.00		---	.00			.00		
27	.00		---	.00			.00		
28	.00		---	.00			.00		
29	.00		---	.00			.00		
30	.00		---	.00			.00		
31	.00		---	---			.00		
TOTAL	0.01		0.01	0.00			0.00		
		JANUARY			FEBRUARY			MARCH	
1	.00			.00		---	.00		---
2	.00			.00		---	.00		---
3	.00			.00		---	.00		---
4	.00			.00		---	.00		---
5	.00			.00		---	.00		---
6	.00			.00		---	.00		---
7	.00			.00		---	.00		---
8	.00			.00		---	.00		---
9	.00			.00		---	.00		---
10	.00			.00		---	.00		---
11	.00			.00		---	.00		---
12	.00			.00		---	.02		.00
13	.00			.00		---	.00		---
14	.00			.00		---	.00		---
15	.00			.00		---	.01		.00
16	.00			.00		---	.00		---
17	.00			.00		---	.00		---
18	.00			.01		.00	.00		---
19	.00			.01		.00	.01		.00
20	.00			.00		---	.00		---
21	.00			.00		---	.00		---
22	.00			.00		---	.00		---
23	.00			.00		---	.00		---
24	.00			.00		---	.00		---
25	.00			.00		---	.00		---
26	.00			.00		---	.00		---
27	.00			.00		---	.00		---
28	.00			.00		---	.00		---
29	.00			---			.00		---
30	.00			---			.00		---
31	.00			---			.00		---
TOTAL	0.00			0.02		0.00	0.04		0.00

09306240 BOX ELDER GULCH NEAR RANGELY, CO--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
		JULY			AUGUST			SEPTEMBER	
1	.00	---	---	.00	---	---	.00	---	---
2	.00	---	---	.00	---	---	.00	---	---
3	.00	---	---	.00	---	---	.00	---	---
4	.00	---	---	.00	---	---	.00	---	---
5	.00	---	---	.00	---	---	.00	---	---
6	.00	---	---	.00	---	---	.00	---	---
7	.00	---	---	.00	---	---	.00	---	---
8	.00	---	---	.00	---	---	11	33100	6750
9	.75	16700	658	.00	---	---	.00	---	---
10	.00	---	---	.00	---	---	.08	11000	13
11	.00	---	---	.00	---	---	.00	---	---
12	.00	---	---	.00	---	---	.00	---	---
13	.00	---	---	.05	---	.90	.00	---	---
14	.00	---	---	.00	---	---	.00	---	---
15	.00	---	---	.20	4010	41	.00	---	---
16	.00	---	---	.00	---	---	.00	---	---
17	.00	---	---	.00	---	---	.00	---	---
18	.00	---	---	.00	---	---	.00	---	---
19	.00	---	---	.00	---	---	.00	---	---
20	.00	---	---	.00	---	---	.00	---	---
21	.00	---	---	.00	---	---	.00	---	---
22	.00	---	---	.00	---	---	.00	---	---
23	.00	---	---	.00	---	---	.00	---	---
24	.04	---	.70	.00	---	---	.00	---	---
25	.01	---	.01	.00	---	---	.00	---	---
26	.00	---	---	.00	---	---	.00	---	---
27	.00	---	---	.00	---	---	.00	---	---
28	.00	---	---	.00	---	---	.00	---	---
29	.00	---	---	.00	---	---	.00	---	---
30	.00	---	---	.72	---	---	.00	---	---
31	.00	---	---	.00	---	---	---	---	---
TOTAL	0.80	---	658.71	0.97	---	41.90	11.08	---	6763
YEAR	12.92		7463.62						

09306241 BOX ELDER GULCH TRIBUTARY NEAR RANGELY, CO

LOCATION.--Lat 39°54'50", long 108°29'06", in SE¼SE¼ sec.34, T.1 S., R.99 W., Rio Blanco County, Hydrologic Unit 14050006, on right bank 880 ft (268 m) above mouth, 3.5 mi (5.6 km) west of 84 Ranch, and 20.5 mi (33.0 km) southwest of Rangely.

DRAINAGE AREA.--2.39 mi^2 (6.19 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1974 to current year.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 6,655 ft (2,028 m), from topographic map.

REMARKS.--Records excellent except for periods of flow, which are poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 139 ft^3/s (3.94 m^3/s) Sept. 7, 1981, gage height, 3.07 ft (0.936 m) from rating curve extended above 2.5 ft^3/s (0.071 m^3/s), on basis of slope-area measurements at gage heights, 1.72 ft (0.524 m) and 3.07 ft (0.936 m); no flow most days each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 139 ft^3/s (3.94 m^3/s) at 1700 Sept. 7, gage height, 3.07 ft (0.936 m) from rating curve extended above 2.5 ft^3/s (0.071 m^3/s), on basis of slope-area measurements at gage heights, 1.72 ft (0.524 m) and 3.07 ft (0.936 m); no flow most days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2	.00	.00	.00	.00	.00	.00	.00	.11	.02	.29	.00	.00
3	.00	.00	.00	.00	.00	.00	.00	.21	.00	.00	.00	.00
4	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
7	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	3.1
8	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
9	.00	.00	.00	.00	.00	.00	.00	.00	.00	.60	.00	.00
10	.00	.00	.00	.00	.00	.20	.00	.00	.00	.00	.00	.00
11	.00	.00	.00	.00	.00	.00	.00	.00	.00	.24	.00	.00
12	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
13	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.03	.00
14	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
16	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
17	.00	.00	.00	.00	.00	.00	.00	.00	.00	.20	.00	.00
18	.00	.00	.00	.00	.38	.00	.00	.00	.00	.00	.00	.00
19	.00	.00	.00	.00	.33	.13	.00	.00	.00	.00	.00	.00
20	.00	.00	.00	.00	.19	.00	.00	.00	.00	.00	.00	.00
21	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
22	.00	.00	.00	.00	.11	.00	.00	.00	.00	.00	.00	.00
23	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.00	.00
24	.00	.00	.00	.00	.00	.00	.00	.00	.00	.06	.00	.00
25	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
26	.00	.00	.00	.00	.00	.00	.00	.02	.09	.11	.00	.00
27	.00	.00	.00	.00	.00	.00	.00	.00	.06	.00	.00	.00
28	.00	.00	.00	.00	.00	.00	.00	.00	.24	.00	.00	.00
29	.00	.00	.00	.00	---	.00	.00	.00	.00	.00	.00	.00
30	.00	.00	.00	.00	---	.00	.00	.00	.00	.00	.12	.00
31	.00	---	.00	.00	---	.00	---	.00	---	.00	.00	---
TOTAL	.00	.00	.00	.00	1.01	.33	.00	.34	.43	1.50	.15	3.10
MEAN	.000	.000	.000	.000	.036	.011	.000	.011	.014	.048	.005	.10
MAX	.00	.00	.00	.00	.38	.20	.00	.21	.24	.60	.12	3.1
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT	.00	.00	.00	.00	2.0	.7	.00	.7	.9	3.0	.3	6.1

CAL YR 1980 TOTAL 3.70 MEAN .010 MAX 1.5 MIN .00 AC-FT 7.3
WTR YR 1981 TOTAL 6.86 MEAN .019 MAX 3.1 MIN .00 AC-FT 14

09306241 BOX ELDER GULCH TRIBUTARY NEAR RANGELY, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--April 1974 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: April 1974 to current year.
WATER TEMPERATURE: April 1974 to current year.
SUSPENDED-SEDIMENT DISCHARGE: October 1974 to current year.

INSTRUMENTATION.--Water-quality monitor since April 1974. Pumping sediment sampler since October 1974.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 1,500 micromhos, June 23, 1981; minimum, 120 micromhos Feb. 18, 1981.
WATER TEMPERATURES: Maximum not determined; minimum, 0.0°C on some days during winter periods having flow.
SEDIMENT CONCENTRATIONS, Maximum daily, 10,800 mg/L Feb. 28, 1976; no flow many days each year.
SEDIMENT LOADS: Maximum daily, 44 tons (40 t) Feb. 28, 1976; no flow many days each year.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 1,500 micromhos June 23; minimum, 120 micromhos Feb. 18.
WATER TEMPERATURES: Maximum not determined; minimum, 0.0°C Feb. 18, 19, 22.
SEDIMENT CONCENTRATIONS: Not determined.
SEDIMENT LOADS: Not determined.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY)	DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY)
JUL 17...	--	.20	83700	45	SEP 07...	--	3.1	113000	946

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1					---				---			
2					---				---			
3					---				---			
4					---				---			
5					---				---			
6					---				---			
7					---				---			
8					---				---			
9					---				---			
10					---				---			
11					---				---			
12					---				---			
13					---				---			
14					---				---			
15					---				---			
16					---				---			
17					---				---			
18					333				---			
19					333				---			
20					330				---			
21					---				---			
22					290				---			
23					---				660			
24					---				---			
25					---				---			
26					---				---			
27					---				---			
28					---				---			
29					---				---			
30					---				---			
31					---				---			

09306241 BOX ELDER GULCH TRIBUTARY NEAR RANGELY, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1									---	---		
2									---	---		
3									---	---		
4									---	---		
5									---	---		
6									---	---		
7									---	---		
8									---	---		
9									---	---		
10									---	---		
11									---	---		
12									---	---		
13									---	---		
14									---	---		
15									---	---		
16									---	---		
17									---	---		
18									.0	.0		
19									1.0	.0		
20									.5	.5		
21									---	---		
22									.0	.0		
23									---	---		
24									---	---		
25									---	---		
26									---	---		
27									---	---		
28									---	---		
29									---	---		
30									---	---		
31									---	---		

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1					---	---						
2					---	---						
3					---	---						
4					---	---						
5					---	---						
6					---	---						
7					---	---						
8					---	---						
9					---	---						
10					---	---						
11					---	---						
12					---	---						
13					---	---						
14					---	---						
15					---	---						
16					---	---						
17					---	---						
18					---	---						
19					---	---						
20					---	---						
21					---	---						
22					---	---						
23					24.5	19.0						
24					---	---						
25					---	---						
26					---	---						
27					---	---						
28					---	---						
29					---	---						
30					---	---						
31					---	---						

09306242 CORRAL GULCH NEAR RANGELY, CO

LOCATION.--Lat 39°55'13", long 108°28'20", in SE¼NW¼ sec.35, T.1 S., R.99 W., Rio Blanco County, Hydrologic Unit 14050006, on left bank 5 ft (2 m) downstream from Boxelder Creek, 3.5 mi (5.6 km) upstream from confluence with Stake Springs Draw, and 21 mi (34 km) southeast of Rangely.

DRAINAGE AREA.--31.6 mi² (81.8 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--March 1974 to current year.

GAGE.--Water-stage recorder. Concrete control since July 20, 1974. Altitude of gage is 6,570 ft (2,003 m), from topographic map.

REMARKS.--Records good. No diversion above station. Flow is not all natural as ground water from mining operations upstream from the gage is included.

AVERAGE DISCHARGE.--7 years, 1.43 ft³/s (0.040 m³/s), 1,040 acre-ft/yr (1.28 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 349 ft³/s (9.88 m³/s) Sept. 7, 1981, gage height, 4.08 ft (1.244 m), from rating curve extended above 15.5 ft³/s (0.44 m³/s), on basis of slope-area measurements at gage heights 3.89 ft (1.186 m), and 4.08 ft (1.244 m); minimum daily, 0.06 ft³/s (0.002 m³/s) Apr. 10-14, 1974.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 349 ft³/s (9.88 m³/s) at 1800 Sept. 7, gage height, 4.08 ft (1.244 m), from rating curve extended above 15.5 ft³/s (0.44 m³/s), on basis of slope-area measurements of peak flow; minimum daily, 0.54 ft³/s (0.015 m³/s) June 5, 6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.89	.67	.88	1.0	.86	.78	.75	.70	.63	1.2	.87	.85
2	.94	.67	.93	1.0	.82	.78	.70	.99	.58	3.0	.87	.79
3	.93	.67	.93	.90	.83	.79	.70	1.3	.62	1.1	.81	.79
4	.93	.66	.98	.80	.75	.79	.70	.79	.58	1.1	.81	.75
5	.93	.66	.98	.80	.70	.79	.70	.79	.54	1.1	.81	.92
6	.88	.58	1.0	.70	.71	.79	.70	.84	.54	1.1	.76	1.0
7	.92	.58	1.0	.71	.71	.79	.70	.79	.58	1.1	.76	6.4
8	.92	.58	.99	.67	.72	.79	.75	.79	.66	1.1	.85	1.0
9	1.0	.58	.99	.68	.72	.84	.75	.74	.79	3.3	.90	1.0
10	1.9	.58	.99	.69	.73	.89	.70	.73	.84	1.1	.95	4.8
11	1.2	.63	1.1	.69	.69	.89	.70	.73	.94	2.9	1.1	1.0
12	1.0	.67	1.1	.70	.69	.84	.70	.72	.94	1.1	1.0	1.0
13	1.1	.80	1.1	.75	.70	.84	.70	.72	.99	1.1	1.3	1.0
14	.90	.76	1.1	.72	.70	.84	.70	.76	.99	1.2	1.2	1.0
15	.90	.71	1.1	.72	.71	.79	.70	.80	.99	1.2	2.1	1.0
16	1.4	.63	1.1	.69	.76	.79	.75	.75	.99	1.1	1.0	1.0
17	1.1	.63	1.2	.70	.76	.79	.70	.74	.99	2.7	1.0	1.1
18	.75	.59	1.2	.75	.77	.79	.66	.74	1.0	1.1	.98	1.2
19	.75	.59	1.2	.76	.77	.79	.66	.69	1.0	1.1	.93	1.2
20	.74	.68	1.2	.76	.83	.79	.70	.64	1.1	1.1	.82	1.2
21	.74	.72	1.3	.77	.83	.79	.70	.68	1.1	1.1	.77	1.2
22	.74	.72	1.3	.78	.84	.79	.70	.68	1.2	1.1	.82	1.2
23	.74	.72	1.3	.79	.79	.75	.70	.67	1.0	1.1	.82	1.1
24	.73	.72	2.3	.75	.80	.75	.70	.67	1.1	1.3	.82	1.1
25	.73	.72	2.0	.80	.80	.75	.70	.66	1.1	1.3	.91	1.2
26	.73	.73	1.7	.81	.76	.75	.66	.66	1.2	2.5	.72	1.2
27	.73	.68	1.6	.82	.77	.75	.70	.69	1.2	1.3	.72	1.1
28	.72	.73	1.5	.83	.77	.75	.70	.73	1.3	1.1	.67	1.1
29	.72	.77	1.5	.84	---	.75	.75	.64	1.2	1.0	1.2	1.1
30	.72	.82	1.2	.85	---	.79	.75	.64	1.2	.97	1.7	1.2
31	.67	---	1.0	.86	---	.79	---	.59	---	.92	.95	---
TOTAL	28.05	20.25	37.77	24.09	21.29	24.59	21.18	23.06	27.89	43.49	29.92	40.50
MEAN	.90	.68	1.22	.78	.76	.79	.71	.74	.93	1.40	.97	1.35
MAX	1.9	.82	2.3	1.0	.86	.89	.75	1.3	1.3	3.3	2.1	6.4
MIN	.67	.58	.88	.67	.69	.75	.66	.59	.54	.92	.67	.75
AC-FT	56	40	75	48	42	49	42	46	55	86	59	80

CAL YR 1980 TOTAL 729.57 MEAN 1.99 MAX 9.8 MIN .58 AC-FT 1450
WTR YR 1981 TOTAL 342.08 MEAN .94 MAX 6.4 MIN .54 AC-FT 679

09306242 CORRAL GULCH NEAR RANGELY, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--March 1974 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: April 1975 to current year.
WATER TEMPERATURE: January 1975 to current year.
SUSPENDED-SEDIMENT DISCHARGE: October 1974 to current year.

INSTRUMENTATION.--Water-quality monitor since October 1974. Pumping sediment sampler since October 1974.

REMARKS.--Daily maximum and minimum specific-conductance data available in district office.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 3,000 micromhos July 17, 1975; minimum, 271 micromhos Feb. 18, 1980.
WATER TEMPERATURES: Maximum, 29.0°C Aug. 5, 1979; minimum, 0.0°C on several days during winter months some years.
SEDIMENT CONCENTRATIONS: Maximum daily, 88,000 mg/L estimated Sept. 11, 1977; minimum daily, 2 mg/L May 24, 1981.
SEDIMENT LOADS: Maximum daily, 2,600 tons (2,360 t) estimated Sept. 7, 1981; minimum daily, 0.00 ton (0.00 t) on many days during 1981.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 1,890 micromhos Oct. 9; minimum, 390 micromhos July 11.
WATER TEMPERATURES: Maximum, 20.5°C July 11; minimum, 5.0°C Dec. 25, Jan. 24.
SEDIMENT CONCENTRATIONS: Maximum daily, 21,800 mg/L July 2; minimum daily, 2 mg/L May 24.
SEDIMENT LOADS: Maximum daily, 2,600 tons (2,360 t) Sept. 7; minimum daily, 0.00 ton (0.00 t) many days during the year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	SPECIFIC CONDUCTANCE LAB (UMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (NTU)	OXYGEN, DISSOLVED (MG/L)	OXYGEN DEMAND, CHEMICAL (HIGH LEVEL) (MG/L)	COLIFORM, TOTAL, IMMED. (COLS. PER 100 ML)	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ML)
OCT											
15...	1220	1.0	1520	1510	7.5	10.0	--	6.2	--	--	--
NOV											
06...	1125	.70	1500	1516	7.5	10.5	--	6.1	--	--	--
DEC											
11...	1145	1.3	1460	1500	7.7	8.5	--	6.8	--	--	--
JAN											
14...	1115	.89	1490	1500	7.6	8.0	--	7.5	--	--	--
FEB											
12...	1140	.84	1510	1470	7.9	9.0	--	7.5	--	--	--
MAR											
04...	1310	.99	1500	1520	7.6	10.5	--	7.4	--	--	--
09...	1120	.89	--	--	--	11.5	--	--	--	--	--
09...	1121	.89	--	--	--	11.5	--	--	--	--	--
APR											
16...	1115	.89	1500	1510	7.6	14.0	.90	6.5	89	120	<4
MAY											
13...	1130	.89	1500	1510	7.7	14.0	--	4.4	--	--	--
JUN											
10...	1125	.94	1500	1480	7.7	15.5	--	6.3	--	--	--
JUL											
09...	1140	1.3	1500	1490	7.8	12.0	--	5.4	--	--	--
AUG											
05...	1250	.94	1450	1490	7.7	16.5	--	6.2	--	--	--
SEP											
08...	1230	E1.0	1480	1480	7.8	14.0	--	5.3	--	--	--

E ESTIMATED.

09306242 CORRAL GULCH NEAR RANGELY, CO--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	HARD-NESS (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFIDE TOTAL (MG/L AS S)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)
OCT 15...	500	81	73	170	3.3	1.8	480	--	380	11
NOV 06...	530	87	76	170	3.2	1.5	470	--	360	11
DEC 11...	510	88	71	160	3.1	2.3	470	--	340	9.3
JAN 14...	500	80	74	170	3.3	1.2	460	--	360	10
FEB 12...	500	85	69	160	3.1	1.3	400	--	360	11
MAR 04...	500	85	71	170	3.3	1.4	460	--	380	11
09...	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--	--
APR 16...	510	86	71	170	3.3	1.4	460	.6	400	11
MAY 13...	520	90	71	170	3.3	1.2	460	--	400	9.9
JUN 10...	490	87	67	160	3.1	1.5	470	--	380	9.5
JUL 09...	490	84	69	170	3.3	1.5	450	--	390	10
AUG 05...	500	89	67	170	3.7	1.5	460	--	380	9.5
SEP 08...	480	86	65	170	3.8	2.7	460	--	330	9.8

DATE	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	BROMIDE DIS-SOLVED (MG/L AS BR)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 105 DEG. C, DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N)
OCT 15...	.3	--	24	--	1030	1.4	2.8	.09	.050	--
NOV 06...	.5	--	24	--	1010	1.4	1.9	--	--	--
DEC 11...	.5	--	25	--	977	1.3	3.4	--	--	--
JAN 14...	.6	--	23	--	995	1.4	2.4	--	--	--
FEB 12...	.4	--	23	--	951	1.3	2.2	--	--	--
MAR 04...	.4	--	23	--	1020	1.4	2.7	--	--	--
09...	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--	--
APR 16...	.5	.10	24	1020	1040	1.4	2.5	.01	.030	.74
MAY 13...	.4	--	23	--	1040	1.4	2.5	--	--	--
JUN 10...	.5	--	24	--	1010	1.4	2.6	--	--	--
JUL 09...	.6	--	26	--	1020	1.4	3.6	--	--	--
AUG 05...	.5	--	25	--	1020	1.4	2.6	--	--	--
SEP 08...	.5	--	25	--	965	1.3	2.9	--	--	--

09306242 CORRAL GULCH NEAR RANGELY, CO--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	PHOSPHORUS, DISSOLVED (MG/L AS P)	ANTIMONY, TOTAL (UG/L AS SB)	ARSENIC DISSOLVED (UG/L AS AS)	BORON, DISSOLVED (UG/L AS B)	MERCURY DISSOLVED (UG/L AS HG)	SELENIUM, DISSOLVED (UG/L AS SE)	CARBON, ORGANIC DISSOLVED (MG/L AS C)	CYANIDE TOTAL (MG/L AS CN)	PHENOLS (UG/L)
OCT										
15...	--	--	--	--	130	--	--	9.6	--	--
NOV										
06...	--	--	--	--	180	--	--	19	--	--
DEC										
11...	--	--	--	--	120	--	--	24	--	--
JAN										
14...	--	--	--	--	140	--	--	13	--	--
FEB										
12...	--	--	--	--	140	--	--	18	--	--
MAR										
04...	--	--	--	--	140	--	--	32	--	--
09...	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--	--
APR										
16...	.77	.050	0	5	5	.0	0	4.9	.00	1
MAY										
13...	--	--	--	--	140	--	--	15	--	--
JUN										
10...	--	--	--	--	130	--	--	18	--	--
JUL										
09...	--	--	--	--	200	--	--	4.0	--	--
AUG										
05...	--	--	--	--	140	--	--	3.7	--	--
SEP										
08...	--	--	--	--	150	--	--	7.2	--	--

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
MAR					
09...	1120	.89	160	.38	47

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
MAR					
09...	1121	.89	37	.09	47

09306242 CORRAL GULCH NEAR RANGELY, CO--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1440	1400	1440	1290	1510	1460	1490	1440	1450	1450	1480	---
2	1440	1430	1430	1290	1490	1450	1500	1450	1460	1380	1470	---
3	1430	---	1420	1310	1480	1450	1490	---	1440	---	1440	---
4	1440	---	1450	1380	1500	1460	1490	---	1440	---	1420	1460
5	1410	---	1460	1430	1500	1490	1480	1450	1450	---	1420	1530
6	1400	1480	1460	1450	1500	1480	1460	1430	1440	---	1410	1460
7	1410	1440	1470	1490	1500	1470	1460	1430	1420	---	1410	1280
8	1400	1440	1440	1490	1500	1460	1480	1450	1400	---	1420	1410
9	1460	1450	1430	1470	1490	1470	1490	1480	1430	1390	1430	1430
10	1500	1450	1450	1470	1440	1500	1480	1480	1450	1340	1440	1240
11	1450	1460	1470	1490	1470	1510	1470	1500	1460	1090	1440	1440
12	1500	1470	1460	1480	1500	1490	1450	1500	1470	1400	1450	1450
13	1510	1470	1500	1470	1500	1490	1460	1480	1450	1410	1360	1440
14	1490	1450	1460	1480	1490	1490	1460	1460	1470	1420	1480	1440
15	1500	1460	1470	1490	1490	1500	1460	1460	1470	1430	1420	---
16	1580	1440	1500	1470	1490	1500	1480	1460	1510	1440	---	1460
17	1540	1430	1480	1440	1470	1500	1480	1460	1500	1340	---	1450
18	1500	1460	1500	1460	1480	1470	1480	1450	1480	---	1450	1450
19	1500	1470	1450	1410	1490	1510	1490	1440	1480	---	1450	1450
20	1480	1440	1440	1390	1490	1510	1460	1460	1470	---	1450	1440
21	1480	1450	1430	1410	1490	1510	1490	1480	1440	---	1460	1450
22	1430	1450	1420	1470	1490	1500	1490	1470	1450	---	1400	1450
23	1440	1450	1400	1480	1480	1490	1460	1460	1450	1450	1290	1450
24	1390	1450	1450	1450	1480	1500	1460	1460	1440	1410	1280	1450
25	1470	1460	1540	1460	1490	1490	1500	1450	1440	---	1320	1450
26	---	1480	1480	1450	1490	1490	1500	1440	1450	---	1600	1450
27	---	1480	1420	1480	1490	1480	1480	1440	---	---	1560	1450
28	---	1480	1310	1490	1480	1490	1480	1470	---	1460	1480	1450
29	---	1470	---	1500	---	1500	1470	1450	---	1460	1420	1450
30	1490	1450	---	1510	---	1470	1450	1450	---	1470	1370	1450
31	1400	---	1280	1510	---	1460	---	1450	---	1480	---	---
MEAN	1460	1450	1450	1450	1490	1490	1480	1460	1450	1400	1430	1440

WTR YR 1981 MEAN 1460 MAX 1600 MIN 1090

09306242 CORRAL GULCH NEAR RANGELY, CO-Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	14.0	8.0	11.5	7.0	8.5	7.0	9.5	6.0	8.0	6.0	9.5	7.0
2	13.5	7.5	10.5	7.0	9.5	7.0	9.5	6.5	9.5	5.5	9.5	7.0
3	13.5	7.5	10.0	7.0	9.5	8.0	10.0	6.5	9.5	5.5	10.5	7.0
4	13.5	7.5	12.0	7.5	9.5	7.5	9.0	6.5	9.5	6.0	11.5	7.0
5	13.5	8.0	11.5	7.5	9.0	5.5	8.5	6.5	9.5	6.0	12.0	7.0
6	13.5	8.0	12.0	7.5	10.0	6.5	9.0	5.5	9.0	6.0	9.0	6.0
7	13.5	8.0	11.5	7.5	9.0	7.5	9.0	5.5	9.0	6.0	10.0	7.0
8	13.0	8.0	11.0	7.5	9.0	7.0	9.0	5.5	9.5	6.0	11.0	6.5
9	13.0	8.0	11.0	7.0	9.0	7.0	9.0	6.0	9.0	6.5	12.0	6.5
10	16.5	7.5	11.0	7.0	9.0	6.5	9.5	6.0	8.5	5.5	12.0	7.0
11	13.0	7.0	11.0	7.0	9.5	7.0	9.0	5.5	8.5	5.5	10.5	7.0
12	12.0	8.0	10.5	7.5	9.0	6.5	9.5	5.5	10.0	6.5	11.0	7.0
13	12.5	8.5	9.0	6.5	9.0	6.5	9.0	5.5	10.5	6.0	11.0	7.0
14	11.0	7.0	9.0	6.5	9.0	6.5	9.0	6.0	10.5	6.5	12.5	7.0
15	11.0	7.5	9.0	6.0	9.5	7.0	9.5	6.0	11.0	7.0	12.5	7.0
16	10.0	6.5	8.5	6.0	9.5	7.0	9.0	6.0	11.0	6.5	11.5	7.0
17	11.0	7.0	9.0	6.0	9.5	7.0	9.0	6.0	10.5	7.0	11.0	5.5
18	11.0	7.5	9.0	6.0	9.5	7.0	9.5	6.0	10.5	7.0	12.0	7.0
19	12.0	7.0	9.5	6.5	9.0	7.0	9.5	6.0	10.5	7.0	12.5	7.0
20	12.0	7.0	9.5	6.5	9.5	7.0	9.5	6.0	8.5	6.5	11.0	6.0
21	12.0	7.0	9.0	6.5	9.5	7.0	9.5	6.0	10.0	6.5	9.5	7.0
22	11.5	7.0	9.0	6.5	9.5	7.5	9.5	6.0	10.5	6.5	13.5	7.0
23	10.5	7.0	9.5	7.0	10.0	7.5	10.0	6.0	11.0	6.5	13.0	7.0
24	10.5	6.5	9.0	7.0	9.0	7.0	8.5	5.0	10.5	6.5	11.5	6.5
25	10.5	6.5	9.0	6.5	10.5	5.0	9.5	6.0	11.0	7.0	13.0	7.0
26	9.0	7.0	9.0	6.5	12.5	8.0	8.5	5.5	10.0	7.0	13.0	7.5
27	8.0	7.0	9.0	6.5	12.5	9.0	8.5	6.0	10.5	6.5	12.0	6.0
28	8.5	6.5	9.5	7.0	12.0	9.0	9.5	7.0	10.5	6.5	10.5	6.5
29	10.0	6.5	9.5	7.0	12.0	6.5	9.5	7.0	---	---	13.0	7.0
30	10.5	6.5	9.0	7.5	9.5	6.0	9.0	6.5	---	---	9.5	5.5
31	11.5	7.0	---	---	9.5	6.0	8.0	6.0	---	---	12.5	6.0
MONTH	16.5	6.5	12.0	6.0	12.5	5.0	10.0	5.0	11.0	5.5	13.5	5.5

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	13.0	7.5	16.0	8.0	16.0	8.5	12.5	10.0	16.5	10.0	14.5	10.5
2	13.5	7.0	14.5	7.5	16.5	8.5	18.5	10.0	16.0	9.5	14.0	11.0
3	10.5	6.0	---	---	13.0	9.0	---	---	16.5	9.5	14.0	11.0
4	12.5	6.5	---	---	16.5	8.5	---	---	16.5	9.5	16.0	10.0
5	13.0	6.5	15.0	8.0	17.0	9.0	---	---	16.5	9.5	12.5	11.0
6	13.5	7.0	15.0	8.0	17.5	9.0	---	---	16.5	9.5	13.0	11.0
7	12.5	7.5	14.0	7.0	16.0	9.5	---	---	16.5	9.5	15.0	11.0
8	13.0	7.5	13.5	7.0	16.5	9.5	---	---	15.5	9.5	16.5	11.0
9	14.0	7.5	13.5	8.0	17.0	9.5	17.5	10.0	16.5	9.5	15.0	10.5
10	14.0	7.5	15.5	7.5	16.5	9.5	17.0	10.5	12.5	10.0	15.0	10.5
11	14.0	7.5	14.0	7.0	16.5	9.0	20.5	10.0	13.5	10.0	15.5	10.0
12	13.5	7.5	15.0	7.5	16.0	9.0	16.0	10.5	16.0	10.0	15.5	9.0
13	15.0	7.5	15.0	7.5	15.5	9.0	15.5	10.5	14.5	9.5	16.0	9.5
14	13.5	7.5	15.5	8.0	13.5	8.5	16.5	10.5	16.5	9.5	15.5	9.5
15	14.0	8.0	14.0	8.0	15.0	8.0	16.0	9.5	15.0	10.0	15.5	9.5
16	15.0	7.5	14.0	8.5	15.5	8.0	12.5	10.0	16.5	10.0	15.0	9.5
17	14.5	8.0	11.5	8.5	15.5	9.0	15.0	10.0	16.0	9.5	15.0	9.0
18	14.0	7.5	14.5	8.5	15.5	8.5	17.0	10.5	15.5	9.5	15.0	9.0
19	14.0	8.0	13.0	8.5	16.0	9.0	18.0	10.0	15.0	9.5	15.0	9.0
20	13.5	7.5	13.5	8.5	16.0	9.0	17.5	9.0	16.0	9.5	15.0	9.5
21	13.5	7.5	12.5	7.5	16.0	9.5	16.5	9.5	14.0	9.5	14.5	10.0
22	13.0	7.5	13.5	8.5	16.0	9.0	16.0	9.5	16.5	9.5	15.0	10.0
23	15.0	7.5	14.5	9.0	16.0	9.5	15.5	9.5	16.0	9.5	14.5	9.5
24	15.5	8.0	14.5	8.0	16.0	9.5	16.5	10.0	16.0	10.0	13.5	10.0
25	14.5	8.0	13.5	8.5	16.0	9.5	17.0	10.5	16.0	9.5	14.0	9.5
26	14.5	8.0	15.0	9.0	16.5	10.0	15.5	10.0	16.5	9.5	14.0	8.5
27	14.0	8.0	15.0	9.5	16.0	10.0	19.0	9.5	16.0	10.0	14.5	9.0
28	15.0	7.5	15.0	9.0	16.0	10.0	16.0	9.5	16.5	9.5	14.0	9.0
29	15.5	8.0	16.0	9.0	17.0	9.5	15.0	9.5	15.5	10.0	14.0	9.5
30	15.0	8.0	17.0	8.5	16.0	9.5	16.5	9.5	15.5	10.5	14.0	9.5
31	---	---	16.0	9.5	---	---	16.0	9.5	14.5	11.0	---	---
MONTH	15.5	6.0	17.0	7.0	17.5	8.0	20.5	9.0	16.5	9.5	16.5	8.5

09306242 CORRAL GULCH NEAR RANGELY, CO--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
		OCTOBER			NOVEMBER			DECEMBER	
1	.89	51	.12	.67	38	.07	.88	---	.25
2	.94	14	.04	.67	33	.06	.93	---	.30
3	.93	31	.08	.67	18	.03	.93	---	.30
4	.93	24	.06	.66	16	.03	.98	---	.35
5	.93	23	.06	.66	5	.00	.98	---	.40
6	.88	20	.05	.58	15	.02	1.0	---	.45
7	.92	23	.06	.58	19	.03	1.0	---	.45
8	.92	25	.06	.58	28	.04	.99	---	.45
9	1.0	64	.25	.58	---	.04	.99	---	.45
10	1.9	178	1.0	.58	---	.04	.99	---	.45
11	1.2	82	.40	.63	---	.03	1.1	188	.56
12	1.0	---	.20	.67	---	.05	1.1	---	.50
13	1.1	---	.30	.80	---	.04	1.1	---	.50
14	.90	636	1.6	.76	---	.03	1.1	---	.50
15	.90	864	2.1	.71	---	.03	1.1	137	.41
16	1.4	1290	6.4	.63	---	.03	1.1	148	.44
17	1.1	650	2.9	.63	16	.03	1.2	213	.69
18	.75	48	.10	.59	21	.03	1.2	217	.70
19	.75	85	.17	.59	8	.01	1.2	209	.68
20	.74	87	.17	.68	13	.02	1.2	207	.67
21	.74	64	.13	.72	23	.04	1.3	188	.66
22	.74	68	.14	.72	56	.11	1.3	66	.23
23	.74	83	.17	.72	---	.08	1.3	228	.80
24	.73	---	.17	.72	---	.05	2.3	2340	17
25	.73	---	.20	.72	---	.05	2.0	2140	11
26	.73	---	.20	.73	---	.06	1.7	1440	7.0
27	.73	---	.15	.68	---	.10	1.6	1590	6.9
28	.72	---	.15	.73	---	.10	1.5	2150	8.7
29	.72	---	.10	.77	---	.20	1.5	1500	6.1
30	.72	---	.10	.82	---	.20	1.2	226	.73
31	.67	48	.09	---	---	---	1.0	---	.45
TOTAL	28.05	---	17.72	20.25	---	1.65	37.77	---	69.07

DAY	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
		JANUARY			FEBRUARY			MARCH	
1	1.0	---	.40	.86	---	.05	.78	---	.08
2	1.0	---	.40	.82	---	.04	.78	---	.08
3	.90	---	.20	.83	---	.05	.79	---	.10
4	.80	---	.15	.75	---	.03	.79	50	.10
5	.80	---	.15	.70	---	.03	.79	---	.10
6	.70	32	.06	.71	---	.03	.79	---	.10
7	.71	44	.08	.71	---	.03	.79	---	.10
8	.67	27	.05	.72	---	.03	.79	---	.10
9	.68	49	.09	.72	---	.03	.84	85	.19
10	.69	66	.12	.73	---	.03	.89	80	.19
11	.69	32	.06	.69	---	.03	.89	93	.22
12	.70	209	.40	.69	---	.03	.84	100	.23
13	.75	304	.62	.70	---	.03	.84	---	.20
14	.72	180	.35	.70	---	.03	.84	---	.20
15	.72	---	.33	.71	---	.03	.79	---	.20
16	.69	---	.30	.76	---	.03	.79	---	.15
17	.70	---	.30	.76	---	.03	.79	---	.15
18	.75	---	.25	.77	17	.04	.79	64	.14
19	.76	---	.25	.77	---	.03	.79	67	.14
20	.76	---	.20	.83	---	.04	.79	54	.12
21	.77	---	.20	.83	---	.04	.79	32	.07
22	.78	108	.23	.84	---	.04	.79	27	.06
23	.79	156	.33	.79	---	.04	.75	21	.04
24	.75	69	.14	.80	---	.05	.75	19	.04
25	.80	22	.05	.80	22	.05	.75	71	.14
26	.81	36	.08	.76	---	.05	.75	71	.14
27	.82	32	.07	.77	---	.06	.75	70	.14
28	.83	32	.07	.77	---	.06	.75	---	.15
29	.84	19	.04	---	---	---	.75	---	.15
30	.85	---	.05	---	---	---	.79	89	.20
31	.86	---	.05	---	---	---	.79	41	.08
TOTAL	24.09	---	6.07	21.29	---	1.06	24.59	---	4.10

09306242 CORRAL GULCH NEAR RANGELY, CO-Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
		APRIL			MAY			JUNE	
1	.75	56	.11	.70	24	.05	.63	5	.00
2	.70	97	.18	.99	10700	73	.58	6	.00
3	.70	99	.19	1.3	12700	72	.62	39	.07
4	.70	96	.18	.79	82	.17	.58	23	.04
5	.70	69	.13	.79	29	.06	.54	12	.02
6	.70	76	.14	.84	20	.05	.54	7	.01
7	.70	76	.14	.79	17	.04	.58	8	.01
8	.75	71	.14	.79	19	.04	.66	8	.01
9	.75	---	.15	.74	18	.04	.79	6	.01
10	.70	---	.15	.73	24	.05	.84	8	.02
11	.70	---	.15	.73	27	.05	.94	8	.02
12	.70	---	.15	.72	17	.03	.94	5	.01
13	.70	95	.18	.72	12	.02	.99	3	.00
14	.70	85	.16	.76	19	.04	.99	6	.02
15	.70	73	.14	.80	28	.06	.99	6	.02
16	.75	70	.14	.75	27	.05	.99	11	.03
17	.70	58	.11	.74	22	.04	.99	20	.05
18	.66	57	.10	.74	19	.04	1.0	17	.05
19	.66	57	.10	.69	17	.03	1.0	24	.06
20	.70	55	.10	.64	25	.04	1.1	17	.05
21	.70	40	.08	.68	27	.05	1.1	14	.04
22	.70	34	.06	.68	24	.04	1.2	13	.04
23	.70	21	.04	.67	14	.03	1.0	13	.04
24	.70	31	.06	.67	2	.00	1.1	9	.03
25	.70	49	.09	.66	6	.01	1.1	14	.04
26	.66	47	.08	.66	30	.05	1.2	9840	63
27	.70	41	.08	.69	45	.10	1.2	648	2.0
28	.70	39	.07	.73	30	.06	1.3	8680	91
29	.75	48	.10	.64	8	.01	1.2	75	.25
30	.75	29	.06	.64	8	.01	1.2	49	.15
31	---	---	---	.59	6	.00	---	---	---
TOTAL	21.18	---	3.56	23.06	---	146.26	27.89	---	157.09
		JULY			AUGUST			SEPTEMBER	
1	1.2	32	.10	.87	90	.21	.85	---	.10
2	3.0	21800	614	.87	145	.34	.79	---	.10
3	1.1	642	1.9	.81	84	.18	.79	---	.10
4	1.1	142	.42	.81	60	.13	.75	59	.12
5	1.1	74	.22	.81	31	.07	.92	---	.15
6	1.1	65	.19	.76	39	.08	1.0	---	.15
7	1.1	60	.18	.76	53	.11	6.4	---	2600
8	1.1	43	.13	.85	58	.13	1.0	296	.80
9	3.3	21100	583	.90	21	.05	1.0	---	.15
10	1.1	3760	12	.95	16	.04	4.8	---	1500
11	2.9	16300	552	1.1	122	.35	1.0	---	.25
12	1.1	---	.40	1.0	57	.16	1.0	---	.10
13	1.1	---	.20	1.3	5800	.27	1.0	---	.10
14	1.2	---	.25	1.2	240	.78	1.0	---	.10
15	1.2	---	.30	2.1	---	250	1.0	---	.10
16	1.1	---	.20	1.0	---	.40	1.0	43	.12
17	2.7	7250	236	1.0	---	.20	1.1	---	.15
18	1.1	188	.55	.98	---	.20	1.2	---	.20
19	1.1	116	.35	.93	---	.20	1.2	---	.20
20	1.1	120	.35	.82	---	.30	1.2	---	.20
21	1.1	34	.10	.77	---	.20	1.2	---	.20
22	1.1	41	.12	.82	122	.27	1.2	---	.20
23	1.1	67	.20	.82	74	.16	1.1	---	.15
24	1.3	73	.29	.82	76	.17	1.1	---	.15
25	1.3	114	.43	.91	261	.75	1.2	---	.15
26	2.5	17600	305	.72	64	.12	1.2	---	.20
27	1.3	---	.30	.72	61	.12	1.1	---	.15
28	1.1	---	.20	.67	75	.14	1.1	---	.15
29	1.0	---	.15	1.2	8880	59	1.1	---	.15
30	.97	---	.15	1.7	12800	161	1.2	---	.15
31	.92	75	.19	.95	---	.15	---	---	---
TOTAL	43.49	---	2309.87	29.92	---	476.28	40.50	---	4104.84
YEAR	342.08		7297.57						

09306255 YELLOW CREEK NEAR WHITE RIVER, CO

LOCATION.--Lat 40°10'07", long 108°24'02", in NE¼SW¼ sec.4, T.2 N., R.98 W., Rio Blanco County, Hydrologic Unit 14050006, on left bank 160 ft (49 m) downstream from bridge on State Highway 64, 0.3 mi (0.5 km) upstream from mouth, and 10 mi (16 km) northwest of White River City.

DRAINAGE AREA.--262 mi² (679 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1972 to current year.

GAGE.--Water-stage recorder. Concrete control since Sept. 18, 1974. Altitude of gage is 5,535 ft (1,687 m), from topographic map.

REMARKS.--Records good except those for winter period, which are fair. Diversions for irrigation of about 300 acres (1.21 km²) above station.

AVERAGE DISCHARGE.--9 years, 1.86 ft³/s (0.053 m³/s) 1,350 acre-ft/yr (1.66 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,800 ft³/s (193 m³/s) Sept. 7, 1978, gage height, 12.97 ft (3.953 m), from contracted opening and flow over road measurement of peak flow; no flow Sept. 7-16, 1978, Dec. 15, 1978, to Jan. 14, 1979.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of July 25, 1965, reached a discharge of 1,050 ft³/s (29.7 m³/s) by slope-area measurement of peak flow.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 36 ft³/yr (1.02 m³/s) at 0100 Aug. 30, gage height, 6.54 ft (1.993 m), no peak above base of 100 ft³/s (2.8 m³/s); minimum daily, 0.64 ft³/s (0.018 m³/s) July 23.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.1	2.7	2.5	2.5	2.3	2.2	2.7	1.9	1.8	1.0	.70	.85
2	2.1	2.7	2.5	2.5	2.3	2.2	2.5	1.9	1.7	1.1	.73	.91
3	2.0	2.7	2.7	2.5	2.3	2.2	3.0	1.9	1.7	1.1	.73	.88
4	2.0	2.6	2.6	2.6	2.3	2.2	2.8	2.2	1.7	1.1	.70	.94
5	2.1	2.6	2.7	2.6	2.3	2.2	2.7	2.1	1.6	1.1	.70	.94
6	2.1	2.6	2.7	2.6	2.2	2.3	2.6	2.1	1.6	1.2	.68	.91
7	2.1	2.6	2.7	2.6	2.2	2.4	2.7	2.1	1.6	1.1	.68	.91
8	2.1	2.6	2.7	2.6	2.2	2.3	2.5	2.1	1.4	1.2	.70	.93
9	2.1	2.6	2.6	2.6	2.2	2.4	2.5	2.0	1.4	1.2	.70	.91
10	2.2	2.5	2.6	2.6	2.1	2.4	2.5	2.0	1.4	1.3	.70	.91
11	2.2	2.5	2.6	2.6	2.1	2.4	2.1	1.9	1.3	1.5	.85	.91
12	2.2	2.6	2.6	2.6	2.1	2.4	2.0	1.9	1.4	1.5	1.3	.91
13	2.3	2.6	2.6	2.6	2.1	2.3	2.1	1.9	1.4	1.3	.95	.91
14	2.7	2.6	2.6	2.5	2.1	2.3	2.0	1.9	1.4	1.4	.88	.91
15	3.6	2.4	2.6	2.5	2.1	2.3	2.0	1.8	1.4	1.2	.88	.91
16	3.3	2.0	2.6	2.5	2.3	2.3	2.1	1.9	1.4	1.1	.88	.91
17	3.3	2.5	2.6	2.5	2.1	2.7	2.1	2.1	1.4	1.0	.88	.94
18	2.8	2.5	2.6	2.5	2.1	2.7	2.0	1.9	1.4	.94	.88	.91
19	2.7	2.5	2.6	2.5	2.1	2.6	2.0	1.9	1.3	1.0	.88	.94
20	2.7	2.5	2.6	2.5	2.1	2.6	1.9	1.9	1.3	.85	.88	.88
21	2.7	2.5	2.7	2.4	2.1	2.6	2.0	1.9	1.3	.78	.88	.85
22	2.7	2.5	2.5	2.4	2.3	2.5	2.1	2.0	1.2	.72	.88	.85
23	2.7	2.5	2.5	2.4	2.5	2.4	2.0	1.9	1.2	.64	.88	.88
24	2.7	2.5	2.4	2.4	2.5	3.0	2.0	1.8	1.1	.70	.88	.88
25	2.7	2.5	2.4	2.3	2.4	2.7	1.9	1.8	1.1	.70	.88	.91
26	2.8	2.5	2.4	2.4	2.3	2.6	1.9	1.8	1.1	.73	.88	.91
27	2.8	2.5	2.3	2.4	2.2	2.7	1.9	1.9	1.1	.73	.88	.91
28	2.7	2.5	2.3	2.3	2.3	2.7	1.8	1.9	1.1	.70	.88	.88
29	2.8	2.5	2.2	2.3	---	2.6	1.8	1.8	1.1	.68	.88	.85
30	2.7	2.5	2.5	2.3	---	2.9	1.8	1.7	1.0	.70	1.7	.91
31	2.8	---	2.5	2.3	---	2.8	---	1.7	---	.70	.88	---
TOTAL	78.8	75.9	79.0	76.9	62.2	76.9	66.0	59.6	40.9	30.97	26.78	27.05
MEAN	2.54	2.53	2.55	2.48	2.22	2.48	2.20	1.92	1.36	1.00	.86	.90
MAX	3.6	2.7	2.7	2.6	2.5	3.0	3.0	2.2	1.8	1.5	1.7	.94
MIN	2.0	2.0	2.2	2.3	2.1	2.2	1.8	1.7	1.0	.64	.68	.85
AC-FT	156	151	157	153	123	153	131	118	81	61	53	54

CAL YR 1980 TOTAL 1138.20 MEAN 3.11 MAX 200 MIN 1.1 AC-FT 2260
WTR YR 1981 TOTAL 701.00 MEAN 1.92 MAX 3.6 MIN .64 AC-FT 1390

09306255 YELLOW CREEK NEAR WHITE RIVER, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--April 1974 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: April 1975 to current year.
WATER TEMPERATURE: April 1975 to current year.
SUSPENDED-SEDIMENT DISCHARGE: April 1974 to current year.

INSTRUMENTATION.--Water-quality monitor since April 1975. Pumping sediment sampler since April 1974.

REMARKS.--Daily maximum and minimum specific-conductance data available in district office.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 5,790 micromhos Sept. 17, 1978; minimum, 457 micromhos July 21, 1979.
WATER TEMPERATURES: Maximum, 35.0°C July 25, 1978; minimum, freezing point on many days during winter months each year.
SEDIMENT CONCENTRATIONS: Maximum daily, 44,000 mg/L Sept. 7, 1978; minimum daily, no flow several days during September 1978, many days during 1979.
SEDIMENT LOADS: Maximum daily, 290,000 tons (263,000 t) Sept. 7, 1978; minimum daily, no flow several days during September 1978, many days during 1979.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 3,840 micromhos Sept. 17; minimum, 1,000 micromhos Aug. 12.
WATER TEMPERATURES: Maximum, 33.5°C July 5; minimum, freezing point on many days during October to April.
SEDIMENT CONCENTRATIONS: Maximum daily, 7,130 mg/L July 11; minimum daily, 8 mg/L May 1.
SEDIMENT LOADS: Maximum daily, 200 tons (180 t) Aug. 30; minimum daily, 0.03 ton (0.03 t) Aug. 5.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN DEMAND, CHEM-ICAL (HIGH LEVEL) (MG/L)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	HARD-NESS (MG/L AS CACO3)
DEC											
15...	1300	E2.6	2950	3140	8.4	.0	--	13.2	--	--	470
MAR											
11...	1228	2.3	--	--	--	--	--	--	--	--	--
APR											
21...	1400	2.0	3500	3550	8.9	14.5	33	9.4	49	K30	510
JUL											
09...	0920	1.2	--	--	--	--	--	--	--	--	--
10...	0920	1.3	3700	3620	8.6	19.0	--	4.4	--	--	470
AUG											
26...	1330	E.88	3300	3460	8.8	29.0	--	8.3	73	--	460

DATE	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFIDE TOTAL (MG/L AS S)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)
DEC										
15...	36	92	560	11	5.8	1130	--	460	94	2.0
MAR										
11...	--	--	--	--	--	--	--	--	--	--
APR										
21...	22	110	720	14	2.7	1230	.6	630	96	1.9
JUL										
09...	--	--	--	--	--	--	--	--	--	--
10...	25	100	690	14	3.6	1360	--	530	130	2.3
AUG										
26...	19	99	670	14	3.3	1210	--	500	140	1.9

DATE	BROMIDE DIS-SOLVED (MG/L AS BR)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 105 DEG. C, DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N)
DEC										
15...	--	9.2	--	1940	2.6	19.9	--	--	--	--
MAR										
11...	--	--	--	--	--	--	--	--	--	--
APR										
21...	.20	9.3	479	2330	3.2	12.6	.08	.070	1.1	1.2
JUL										
09...	--	--	--	--	--	--	--	--	--	--
10...	--	7.6	--	2310	3.1	8.1	--	--	--	--
AUG										
26...	--	5.7	--	2170	3.0	4.9	.32	.150	.57	.72

09306255 YELLOW CREEK NEAR WHITE RIVER, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	ANTI-MONY, TOTAL (UG/L AS SB)	ARSENIC DIS-SOLVED (UG/L AS AS)	BORON, DIS-SOLVED (UG/L AS B)	MERCURY DIS-SOLVED (UG/L AS HG)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C)	CYANIDE TOTAL (MG/L AS CN)	PHENOLS (UG/L)
DEC										
15...	--	--	--	--	520	--	--	29	--	--
MAR										
11...	--	--	--	--	--	--	--	--	--	--
APR										
21...	.020	--	0	4	620	.0	2	16	.00	0
JUL										
09...	--	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	790	--	--	7.2	--	--
AUG										
26...	.030	.010	--	6	750	.0	2	12	.00	0

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
MAR					
11...	1228	2.3	292	1.8	86

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2940	2960	3000	3080	3090	3180	---	3450	3420	3440	3490	3380
2	2930	2950	2980	3050	3280	3180	---	3400	3500	3450	3530	3450
3	2930	2940	3030	3020	3210	3220	---	3300	3390	3520	3540	3470
4	2960	2950	3020	3000	3170	3240	---	3510	3480	3590	3550	3500
5	2960	2970	3010	2980	3200	3270	3250	3540	3530	3610	3550	3370
6	2960	2970	3000	3010	3240	3240	3450	3350	3480	3610	3540	3470
7	2960	2980	3020	3040	3150	3200	3410	3550	3420	3590	3510	3500
8	2960	2980	2970	3140	3100	3270	3420	3520	3550	3590	3490	3480
9	2970	2970	3030	3140	3060	3310	3420	3580	3490	3510	3460	3430
10	2920	2960	3040	3110	3100	3360	3400	---	3460	3550	3380	3530
11	2950	2960	3050	3160	3390	3300	3400	---	3470	3560	3410	3540
12	2960	2970	3080	3240	2970	3340	3420	---	3120	---	3150	3580
13	2940	2970	3120	3200	3040	3350	3430	---	3250	---	3070	3600
14	2960	3000	3100	3120	3020	3340	3430	---	3040	---	3480	3590
15	2900	2900	2980	3050	2990	3360	3390	---	2200	---	3460	3620
16	2900	3010	2970	3060	2990	3360	3430	---	---	---	3480	3600
17	2940	3070	3010	3050	2970	3190	3430	---	---	3520	3520	3610
18	3050	3100	3040	3090	2990	3340	3430	---	3450	3590	3540	3620
19	3040	3050	3020	3170	3020	3410	3450	3450	3440	3390	3510	---
20	3020	3040	3050	3160	3060	3420	3460	3440	3460	3600	3530	---
21	3010	3040	3020	3170	3110	3370	3460	3430	3460	3590	3460	3600
22	3010	3070	2990	3170	3170	3400	3320	3430	3460	3570	3500	3580
23	2990	3040	2950	3150	3030	3300	3330	3440	3430	3490	3520	3590
24	2900	3010	2950	3070	3110	3130	3330	3440	3410	3400	3490	3540
25	2980	3070	2970	3040	3020	3370	3330	3420	3400	3510	3510	3530
26	3020	3080	2960	3090	3100	3380	3360	3420	3380	3400	3530	3530
27	3030	3150	2950	3070	3140	3330	3320	3330	3290	3530	3520	3620
28	3000	3020	2960	3050	3170	3270	3310	3380	3270	3560	3520	3620
29	3010	3050	2910	3040	---	3370	3330	3430	3310	3520	3400	3560
30	3010	3040	3030	3040	---	3120	3400	3490	3420	3500	3180	3550
31	2910	---	3050	3000	---	3300	---	3420	---	3490	3340	---

09306255 YELLOW CREEK NEAR WHITE RIVER, CO--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	22.5	4.5	12.5	.0	5.5	.0	4.0	.0	3.0	.0	11.5	.0
2	20.5	4.5	12.0	1.0	5.5	.0	5.0	.0	.0	.0	8.0	.0
3	20.5	3.0	10.0	.5	9.5	2.0	6.0	.0	.0	.0	14.0	.0
4	20.5	3.0	12.0	1.5	7.0	2.5	6.5	.0	.0	.0	15.0	2.0
5	20.5	3.0	13.5	1.0	8.5	2.0	4.0	1.0	.0	.0	13.0	.0
6	20.0	3.5	11.5	1.0	6.0	1.0	3.5	.0	.0	.0	9.0	.0
7	20.0	3.5	13.5	3.0	6.0	1.0	.0	.0	.0	.0	9.0	.0
8	20.5	3.5	11.0	2.0	5.0	.0	.0	.0	1.5	.0	15.0	.0
9	19.5	3.0	12.5	.5	1.5	.0	.0	.0	5.0	.0	16.0	.0
10	18.0	3.0	12.5	.0	.0	.0	2.0	.0	1.0	.0	16.0	.0
11	18.0	1.5	11.5	.0	.0	.0	.0	.0	.0	.0	9.5	.0
12	11.5	3.5	9.5	4.5	.0	.0	.0	.0	.0	.0	13.0	2.0
13	14.0	6.0	6.5	2.5	.0	.0	.0	.0	5.5	.0	10.5	.0
14	13.5	5.0	6.5	.0	.0	.0	.0	.0	8.0	.0	13.5	.0
15	11.0	5.0	4.5	.0	.0	.0	.0	.0	10.0	1.0	17.5	.0
16	8.5	3.0	.0	.0	3.0	.0	.0	.0	11.0	.0	13.5	.0
17	13.5	2.5	.0	.0	4.5	.0	3.5	.0	11.0	.0	14.0	.0
18	14.5	5.0	.0	.0	5.5	.0	4.0	.0	10.0	.0	14.0	2.0
19	16.0	2.0	.0	.0	5.0	.0	3.0	.0	10.5	.0	15.5	1.0
20	15.5	1.5	2.5	.0	3.5	.0	4.5	.0	5.0	.0	10.5	2.5
21	15.5	1.5	2.5	.0	6.0	.0	2.5	.0	9.5	.0	9.0	2.0
22	14.0	3.0	4.0	.0	7.5	1.5	3.0	.0	10.5	.0	16.5	2.0
23	12.5	.5	6.0	.0	7.0	1.0	3.0	.0	12.5	.0	17.0	2.5
24	12.5	.0	5.0	.0	6.0	.0	5.5	.0	13.0	.0	9.0	1.5
25	12.0	.0	3.0	.0	8.0	.0	6.5	.0	11.5	.0	18.0	2.0
26	8.0	.0	3.5	.0	8.0	.0	.0	.0	6.5	.0	16.5	2.0
27	6.0	1.0	.0	.0	7.5	.0	.0	.0	14.0	.0	14.0	3.0
28	8.5	.0	4.0	.0	7.5	.0	6.0	.5	13.0	.0	7.5	1.5
29	12.0	.0	6.5	.0	5.0	.0	6.5	.0	---	---	16.5	1.0
30	12.5	.0	7.5	.0	4.5	.0	6.0	.0	---	---	7.0	.0
31	13.5	.0	---	---	4.5	.0	3.0	.0	---	---	12.5	.0
MONTH	22.5	.0	13.5	.0	9.5	.0	6.5	.0	14.0	.0	18.0	.0

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	17.0	.0	27.0	6.0	29.0	10.5	21.5	16.5	29.0	14.5	27.0	10.0
2	17.5	1.0	22.0	11.0	30.0	9.5	31.0	15.5	31.5	12.0	23.5	12.0
3	8.0	.0	15.5	6.5	23.0	12.5	32.0	13.5	29.5	12.0	27.0	12.0
4	11.0	.0	24.5	9.5	28.0	10.5	31.5	13.0	30.0	13.5	26.0	10.0
5	17.5	.0	23.0	5.0	31.0	10.5	33.5	12.5	31.0	10.5	18.0	13.5
6	20.5	.0	19.0	8.0	28.0	11.5	30.5	12.5	31.0	10.5	23.0	12.5
7	10.0	4.0	25.5	8.5	28.5	13.5	30.5	14.5	30.5	11.0	26.0	13.0
8	18.0	2.5	13.0	5.5	29.0	13.0	32.5	15.0	30.0	11.0	24.0	10.5
9	19.0	1.5	22.0	6.0	29.0	13.0	28.0	16.0	28.5	13.5	27.0	12.5
10	14.5	3.0	---	---	31.0	12.5	30.5	14.5	17.5	13.0	24.0	13.0
11	18.5	3.0	---	---	32.0	12.5	29.5	15.0	22.0	12.0	25.5	7.5
12	20.0	2.5	---	---	21.5	13.0	---	---	30.0	14.0	26.5	9.5
13	23.0	4.5	---	---	22.0	14.5	---	---	25.0	12.5	28.0	10.5
14	23.5	1.5	---	---	19.0	11.0	---	---	27.5	12.0	26.5	10.0
15	21.0	8.5	---	---	18.0	8.0	---	---	23.5	12.5	27.0	9.5
16	23.5	4.0	---	---	---	---	---	---	30.0	12.0	18.5	9.0
17	20.5	5.0	---	---	---	---	26.0	16.0	30.0	12.0	11.5	6.5
18	22.5	4.5	---	---	26.5	13.5	31.0	14.0	30.5	10.5	25.0	12.0
19	21.5	8.0	24.0	12.5	27.5	9.5	30.0	13.5	27.5	11.0	---	---
20	20.5	4.0	17.5	8.5	28.5	11.0	30.5	10.5	29.0	11.5	---	---
21	16.5	3.0	14.0	6.0	28.0	12.0	30.0	10.5	20.0	11.5	24.5	11.0
22	23.0	4.5	17.5	8.0	31.0	11.0	30.0	11.0	28.5	12.0	29.5	12.0
23	25.0	2.5	25.0	9.5	28.0	11.5	27.0	15.0	29.0	12.0	24.0	8.5
24	25.0	4.0	24.5	6.5	31.0	12.5	27.5	12.5	25.5	12.0	20.0	10.5
25	24.0	6.5	21.5	8.5	32.0	11.5	31.0	14.0	29.5	11.5	19.0	9.5
26	23.0	5.5	22.5	11.0	30.0	14.0	28.5	13.5	30.5	11.5	21.0	5.5
27	23.5	4.5	24.0	12.5	27.0	15.5	30.5	10.5	31.0	14.0	21.0	4.5
28	25.5	5.0	25.5	11.5	27.0	15.5	30.0	11.0	29.5	12.5	21.5	7.0
29	25.5	5.5	25.5	10.0	30.5	13.5	27.5	11.5	24.5	13.5	18.5	7.0
30	27.0	5.5	28.5	9.0	32.5	13.5	26.5	13.5	27.0	12.5	22.0	8.5
31	---	---	27.0	14.0	---	---	29.0	13.0	28.0	11.5	---	---
MONTH	27.0	.0	28.5	5.0	32.5	8.0	33.5	10.5	31.5	10.5	29.5	4.5

09306255 YELLOW CREEK NEAR WHITE RIVER, CO—Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
		OCTOBER			NOVEMBER			DECEMBER	
1	2.1	25	.14	2.7	25	.18	2.5	41	.28
2	2.1	20	.11	2.7	14	.10	2.5	46	.31
3	2.0	18	.10	2.7	17	.12	2.7	54	.39
4	2.0	15	.08	2.6	22	.15	2.6	43	.30
5	2.1	48	.27	2.6	40	.28	2.7	47	.34
6	2.1	66	.37	2.6	35	.25	2.7	31	.23
7	2.1	32	.18	2.6	24	.17	2.7	18	.13
8	2.1	34	.19	2.6	26	.18	2.7	38	.28
9	2.1	28	.16	2.6	39	.27	2.6	44	.31
10	2.2	40	.24	2.5	37	.25	2.6	57	.40
11	2.2	16	.10	2.5	33	.22	2.6	58	.41
12	2.2	66	.39	2.6	27	.19	2.6	60	.42
13	2.3	299	3.6	2.6	40	.28	2.6	64	.45
14	2.7	834	12	2.6	30	.21	2.6	87	.61
15	3.6	1230	27	2.4	114	.74	2.6	80	.56
16	3.3	---	4.0	2.0	117	.63	2.6	80	.56
17	3.3	150	1.3	2.5	120	.81	2.6	85	.60
18	2.8	102	.77	2.5	97	.65	2.6	62	.44
19	2.7	85	.62	2.5	126	.85	2.6	64	.45
20	2.7	67	.49	2.5	124	.84	2.6	62	.44
21	2.7	68	.50	2.5	193	1.3	2.7	62	.45
22	2.7	59	.43	2.5	87	.59	2.5	26	.18
23	2.7	36	.26	2.5	68	.46	2.5	24	.16
24	2.7	33	.24	2.5	45	.30	2.4	32	.21
25	2.7	41	.30	2.5	163	1.1	2.4	24	.16
26	2.8	30	.23	2.5	201	1.4	2.4	24	.16
27	2.8	29	.22	2.5	130	.88	2.3	20	.12
28	2.7	27	.20	2.5	116	.78	2.3	20	.12
29	2.8	45	.34	2.5	97	.65	2.2	32	.19
30	2.7	34	.25	2.5	65	.44	2.5	39	.26
31	2.8	35	.26	---	---	---	2.5	56	.38
TOTAL	78.8	---	55.34	75.9	---	15.27	79.0	---	10.30
		JANUARY			FEBRUARY			MARCH	
1	2.5	92	.62	2.3	79	.49	2.2	204	1.3
2	2.5	64	.43	2.3	111	.69	2.2	155	.92
3	2.5	52	.35	2.3	87	.54	2.2	164	.97
4	2.6	47	.33	2.3	90	.56	2.2	103	.61
5	2.6	24	.17	2.3	105	.65	2.2	129	.77
6	2.6	89	.62	2.2	102	.61	2.3	165	1.0
7	2.6	45	.32	2.2	109	.65	2.4	178	1.2
8	2.6	64	.45	2.2	105	.62	2.3	239	1.5
9	2.6	60	.42	2.2	110	.65	2.4	183	1.2
10	2.6	57	.40	2.1	95	.54	2.4	143	.93
11	2.6	46	.32	2.1	55	.31	2.4	199	1.3
12	2.6	58	.41	2.1	89	.50	2.4	132	.86
13	2.6	58	.41	2.1	320	1.8	2.3	100	.62
14	2.5	82	.55	2.1	161	.91	2.3	130	.81
15	2.5	85	.57	2.1	130	.74	2.3	130	.81
16	2.5	100	.68	2.3	130	.81	2.3	120	.75
17	2.5	88	.59	2.1	100	.57	2.7	300	2.2
18	2.5	86	.58	2.1	98	.56	2.7	353	2.6
19	2.5	107	.72	2.1	137	.78	2.6	254	1.8
20	2.5	91	.61	2.1	75	.43	2.6	200	1.4
21	2.4	74	.48	2.1	250	1.7	2.6	180	1.3
22	2.4	82	.53	2.3	300	2.6	2.5	156	1.1
23	2.4	80	.52	2.5	146	1.1	2.4	155	1.0
24	2.4	85	.55	2.5	135	.97	3.0	295	2.7
25	2.3	91	.57	2.4	132	.90	2.7	297	2.2
26	2.4	85	.55	2.3	120	.75	2.6	180	1.3
27	2.4	100	.65	2.2	120	.71	2.7	250	1.8
28	2.3	103	.64	2.3	309	2.0	2.7	175	1.3
29	2.3	47	.29	---	---	---	2.6	364	2.5
30	2.3	70	.43	---	---	---	2.9	788	6.2
31	2.3	90	.56	---	---	---	2.8	918	8.3
TOTAL	76.9	---	15.32	62.2	---	24.14	76.9	---	53.25

09306255 YELLOW CREEK NEAR WHITE RIVER, CO-Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
		APRIL			MAY			JUNE	
1	2.7	225	1.6	1.9	8	.04	1.8	65	.32
2	2.5	183	1.2	1.9	39	.20	1.7	29	.13
3	3.0	919	7.9	1.9	500	2.6	1.7	31	.14
4	2.8	969	7.8	2.2	55	.33	1.7	25	.11
5	2.7	1060	9.1	2.1	45	.26	1.6	---	.20
6	2.6	169	1.2	2.1	65	.37	1.6	33	.14
7	2.7	147	1.1	2.1	61	.35	1.6	---	.20
8	2.5	103	.70	2.1	43	.24	1.4	31	.12
9	2.5	86	.58	2.0	25	.14	1.4	28	.11
10	2.5	104	.70	2.0	32	.17	1.4	31	.12
11	2.1	87	.49	1.9	35	.18	1.3	75	.26
12	2.0	130	.70	1.9	36	.18	1.4	1920	7.5
13	2.1	140	.79	1.9	35	.18	1.4	73	.28
14	2.0	85	.46	1.9	30	.15	1.4	48	.18
15	2.0	92	.50	1.8	35	.17	1.4	481	1.8
16	2.1	80	.45	1.9	50	.26	1.4	120	.45
17	2.1	90	.51	2.1	57	.32	1.4	91	.34
18	2.0	101	.55	1.9	36	.18	1.4	77	.29
19	2.0	60	.32	1.9	35	.18	1.3	49	.17
20	1.9	65	.33	1.9	34	.17	1.3	50	.18
21	2.0	70	.38	1.9	30	.15	1.3	42	.15
22	2.1	50	.28	2.0	33	.18	1.2	---	.09
23	2.0	40	.22	1.9	38	.19	1.2	---	.09
24	2.0	23	.12	1.8	32	.16	1.1	25	.07
25	1.9	50	.26	1.8	36	.17	1.1	---	.07
26	1.9	46	.24	1.8	26	.13	1.1	---	.06
27	1.9	21	.11	1.9	86	.44	1.1	18	.05
28	1.8	103	.50	1.9	41	.21	1.1	---	.05
29	1.8	31	.15	1.8	34	.17	1.1	---	.08
30	1.8	9	.04	1.7	35	.16	1.0	42	.11
31	---	---	---	1.7	57	.26	---	---	---
TOTAL	66.0	---	39.28	59.6	---	8.89	40.9	---	13.86
		JULY			AUGUST			SEPTEMBER	
1	1.0	34	.09	.70	80	.15	.85	197	.45
2	1.1	44	.13	.73	55	.11	.91	15	.04
3	1.1	41	.12	.73	80	.16	.88	18	.04
4	1.1	51	.15	.70	37	.07	.94	55	.14
5	1.1	41	.12	.70	15	.03	.94	237	.60
6	1.2	29	.09	.68	---	.05	.91	96	.24
7	1.1	28	.08	.68	---	.05	.91	---	.20
8	1.2	29	.09	.70	30	.06	.93	---	.15
9	1.2	25	.08	.70	---	.15	.91	---	.65
10	1.3	49	.17	.70	---	.20	.91	51	.13
11	1.5	7130	46	.85	---	.35	.91	55	.14
12	1.5	268	1.1	1.3	---	10	.91	65	.16
13	1.3	266	.93	.95	---	.35	.91	---	.15
14	1.4	2720	14	.88	112	.27	.91	---	.20
15	1.2	129	.42	.88	55	.13	.91	---	.20
16	1.1	54	.16	.88	90	.21	.91	80	.20
17	1.0	78	.21	.88	90	.21	.94	115	.29
18	.94	98	.25	.88	---	.20	.91	100	.25
19	1.0	1570	7.8	.88	83	.20	.94	85	.22
20	.85	---	.20	.88	---	.20	.88	180	.43
21	.78	---	.10	.88	90	.21	.85	50	.11
22	.72	44	.09	.88	---	.20	.85	40	.09
23	.64	64	.11	.88	---	.20	.88	25	.06
24	.70	110	.21	.88	---	.25	.88	43	.10
25	.70	100	.19	.88	---	.25	.91	45	.11
26	.73	403	.90	.88	105	.25	.91	47	.12
27	.73	---	.50	.88	---	.25	.91	50	.12
28	.70	195	.37	.88	---	.25	.88	40	.10
29	.68	40	.07	.88	4830	12	.85	45	.10
30	.70	80	.15	1.7	6760	200	.91	---	.10
31	.70	84	.16	.88	---	---	---	---	---
TOTAL	30.97	---	75.04	26.78	---	227.01	27.05	---	5.89
YEAR	701.00		543.59						

09306300 WHITE RIVER ABOVE RANGELY, CO

LOCATION.--Lat 40°06'26", long 108°42'44", in SW¼SE¼ sec.27, T.2 N., R.101 W., Rio Blanco County, Hydrologic Unit 14050007, on left bank 80 ft (24 m) upstream from Taylor Draw and 4.7 mi (7.6 km) east of Rangely.

DRAINAGE AREA.--2,773 mi² (7,182 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1972 to current year.

REVISED RECORDS.--WDR CO-79-3: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 5,270 ft (1,606 m), from topographic map.

REMARKS.--Records good. Diversions above station for irrigation of about 31,900 acres (129 km²).

AVERAGE DISCHARGE.--9 years, 633 ft³/s (17.93 m³/s), 458,600 acre-ft/yr (565 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,260 ft³/s (121 m³/s) June 9, 1975, gage height, 7.02 ft (2.140 m); maximum gage height, 8.68 ft (2.646 m) Jan. 19, 1977 (backwater from ice); minimum daily discharge, 62 ft³/s (1.76 m³/s) July 13, 14, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,990 ft³/s (56.4 m³/s) at 2330 June 9, gage height, 5.21 ft (1.588 m); no peak above base of 2,800 ft³/s (79 m³/s); minimum daily, 178 ft³/s (5.04 m³/s) Aug. 29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	340	465	400	310	242	316	400	944	1570	370	306	229
2	334	458	406	323	262	316	388	936	1530	430	276	223
3	316	458	400	320	204	316	412	1020	1560	514	263	204
4	298	458	406	320	242	316	424	1420	1690	500	238	221
5	292	451	406	325	279	316	394	1080	1640	472	219	244
6	292	451	406	324	299	298	358	936	1610	418	207	268
7	280	451	406	310	313	328	382	920	1660	394	188	273
8	274	451	406	249	273	328	388	776	1800	382	199	296
9	280	444	400	290	304	322	382	704	1810	322	192	277
10	274	437	358	283	290	316	364	640	1730	316	192	265
11	280	430	328	311	218	310	418	584	1530	430	221	270
12	292	437	360	286	208	304	437	570	1280	424	304	305
13	328	444	364	303	377	316	479	549	1020	528	400	317
14	400	493	358	313	367	316	479	500	856	542	375	322
15	656	465	346	330	369	310	486	437	768	430	362	327
16	521	394	417	341	377	304	514	424	640	388	373	332
17	507	376	430	360	384	316	549	479	563	370	402	326
18	556	382	439	386	386	346	591	549	493	394	390	319
19	535	376	400	360	376	340	619	500	444	424	383	330
20	500	388	376	509	371	334	720	458	412	394	358	335
21	493	394	392	528	355	340	704	500	364	352	357	329
22	479	400	361	471	327	346	612	542	346	322	315	322
23	458	394	372	469	323	346	598	486	328	280	260	309
24	465	382	364	415	330	352	570	570	298	304	223	296
25	437	350	345	395	344	394	640	577	286	334	211	290
26	444	330	362	370	352	358	800	598	268	376	222	295
27	472	310	355	336	322	364	880	696	262	400	209	294
28	472	286	347	397	322	400	888	960	310	375	208	287
29	458	364	346	285	---	394	872	1250	444	344	178	287
30	444	406	315	263	---	382	912	1400	424	326	273	292
31	465	---	307	247	---	382	---	1390	---	325	224	---
TOTAL	12642	12325	11678	10729	8816	10426	16660	23395	27936	12180	8528	8684
MEAN	408	411	377	346	315	336	555	755	931	393	275	289
MAX	656	493	439	528	386	400	912	1420	1810	542	402	335
MIN	274	286	307	247	204	298	358	424	262	280	178	204
AC-FT	25080	24450	23160	21[illegible]80	17490	20680	33050	46400	55410	24160	16920	17220

CAL YR 1980 TOTAL 253968 MEAN 694 MAX 2780 MIN 273 AC-FT 503700
WTR YR 1981 TOTAL 163999 MEAN 449 MAX 1810 MIN 178 AC-FT 325300

09306300 WHITE RIVER ABOVE RANGELY, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1975 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN DEMAND, CHEM-ICAL (HIGH LEVEL) (MG/L)	HARD-NESS (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)
OCT										
31...	1110	560	790	800	8.2	4.0	10.4	--	280	66
NOV										
19...	1200	300	745	768	8.0	.5	9.4	--	270	64
DEC										
15...	1130	278	840	860	8.1	.0	12.6	--	300	77
JAN										
26...	1145	349	740	785	8.5	.0	12.8	--	250	65
FEB										
26...	1045	356	830	815	8.2	2.5	11.9	--	270	74
APR										
06...	1000	350	870	895	8.4	6.0	10.6	--	290	69
22...	1015	608	510	514	8.0	10.0	8.8	--	190	51
MAY										
15...	0945	--	560	588	8.1	14.0	8.8	--	220	59
JUN										
18...	1110	507	650	638	8.2	15.0	--	--	230	61
JUL										
27...	1040	397	740	749	8.1	18.0	7.6	--	300	77
AUG										
25...	1245	220	795	734	8.1	20.5	8.7	48	290	65

DATE	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)
OCT										
31...	28	69	1.8	1.7	190	180	38	.3	13	510
NOV										
19...	26	68	1.8	1.9	190	160	36	.3	14	485
DEC										
15...	27	74	1.8	2.3	200	200	40	.4	14	555
JAN										
26...	22	63	1.7	1.3	170	170	39	.3	13	476
FEB										
26...	20	--	--	1.5	180	210	39	.3	14	--
APR										
06...	29	81	2.1	1.8	190	230	38	.3	1.3	565
22...	15	36	1.1	1.4	120	100	30	.2	14	320
MAY										
15...	18	38	1.1	1.4	140	120	26	.1	11	358
JUN										
18...	20	38	1.1	1.8	160	120	24	.1	14	375
JUL										
27...	27	50	1.3	2.3	180	170	34	.2	15	484
AUG										
25...	30	64	1.8	2.2	170	200	37	.3	13	514

09306300 WHITE RIVER ABOVE RANGELY, CO--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NITRATE TOTAL (MG/L AS N)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NITRITE TOTAL (MG/L AS N)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)
OCT 31...	.69	771	--	--	--	--	.14	--	.050	--
NOV 19...	.66	471	--	--	--	--	.00	--	.060	--
DEC 15...	.75	417	--	--	--	--	.03	--	.000	--
JAN 26...	.65	449	--	--	--	--	.06	--	.070	--
FEB 26...	--	--	--	--	--	--	.00	--	.050	--
APR 06...	.77	534	--	--	--	--	.09	--	.050	--
22...	.44	525	--	--	--	--	.11	--	.140	--
MAY 15...	.49	--	--	--	--	--	.00	--	.070	--
JUN 18...	.51	513	--	--	--	--	.03	--	.170	--
JUL 27...	.66	519	.07	--	.020	--	.09	--	.100	--
AUG 25...	.70	305	--	.08	--	.020	--	.10	--	.130

DATE	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	BORON, DIS-SOLVED (UG/L AS B)	IRON, DIS-SOLVED (UG/L AS FE)
OCT 31...	.66	--	.71	--	.85	.150	--	--	90	20
NOV 19...	.37	--	.43	--	.43	.050	--	--	110	40
DEC 15...	.46	--	.46	--	.49	.030	--	--	60	20
JAN 26...	.27	--	.34	--	.40	.040	--	--	40	30
FEB 26...	.38	--	.43	--	.43	.110	--	--	30	20
APR 06...	1.1	--	1.10	--	1.2	.130	--	--	40	20
22...	.40	--	.54	--	.65	.170	--	--	30	20
MAY 15...	.64	--	.71	--	.71	.060	--	--	20	20
JUN 18...	.43	--	.60	--	.63	.050	--	--	30	20
JUL 27...	1.5	--	1.60	--	1.7	.380	--	--	50	<10
AUG 25...	--	.24	--	.37	--	--	.010	.010	60	<10

DATE	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL)	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS-SOLVED (UG/L AS AS)	ARSENIC TOTAL IN BOT-TOM MA-TERIAL (UG/G AS AS)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA)	BARIUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS BA)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE)	BERYL-LIUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD)	CADMIUM DIS-SOLVED (UG/L AS CD)
APR 22...	3400	--	2	--	--	100	--	0	--	--	0	--
AUG 25...	420	10	1	1	8	--	100	0	<1	<1	0	<1

DATE	CADMIUM RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CD)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	CHRO-MIUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	COBALT, TOTAL RECOV-ERABLE (UG/L AS CO)	COBALT, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CO)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU)	COPPER, DIS-SOLVED (UG/L AS CU)	COPPER, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CU)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS FE)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB)
APR 22...	--	20	--	--	4	--	7	--	--	--	--	4
AUG 25...	1	0	0	6	--	10	6	4	13	1000	6000	6

09306300 WHITE RIVER ABOVE RANGELY, CO-Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	LEAD, DIS-SOLVED (UG/L AS PB)	LEAD, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS PB)	LITHIUM TOTAL RECOV-ERABLE (UG/L AS LI)	LITHIUM DIS-SOLVED (UG/L AS LI)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MANGA-NESE, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG)	MERCURY DIS-SOLVED (UG/L AS HG)	MERCURY RECOV. FM BOT-TOM MA-TERIAL (UG/G AS HG)	MOLYB-DENUM, TOTAL RECOV-ERABLE (UG/L AS MO)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)
APR												
22...	--	--	10	--	120	--	--	.1	--	--	2	--
AUG												
25...	2	10	20	23	30	8	350	.1	.0	.03	3	<10

DATE	MOLYB-DENUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI)	NICKEL, DIS-SOLVED (UG/L AS NI)	NICKEL, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS NI)	SELE-NIUM, TOTAL (UG/L AS SE)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	SELE-NIUM, TOTAL IN BOT-TOM MA-TERIAL (UG/G)	VANA-DIUM, DIS-SOLVED (UG/L AS V)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN)	ZINC, DIS-SOLVED (UG/L AS ZN)	ZINC, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS ZN)
APR											
22...	--	2	--	--	1	--	--	--	20	--	--
AUG											
25...	<1	4	0	15	1	1	1	.0	10	<3	34

DATE	CARBON, ORGANIC TOTAL (MG/L AS C)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C)	CYANIDE TOTAL (MG/L AS CN)	PHENOLS (UG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	PCB, TOTAL (UG/L)	NAPH-THA-LENES, POLY-CHLOR. TOTAL (UG/L)	ALDRIN, TOTAL (UG/L)	CHLOR-DANE, TOTAL (UG/L)	DDD, TOTAL (UG/L)
APR										
22...	--	5.3	.00	--	--	--	--	--	--	--
JUL										
27...	17	11	--	--	--	--	--	--	--	--
AUG										
25...	--	4.2	.00	0	.00	.00	.00	.00	.00	.00

DATE	DDE, TOTAL (UG/L)	DDT, TOTAL (UG/L)	DI-AZINON, TOTAL (UG/L)	DI-ELDRIN TOTAL (UG/L)	ENDO-SULFAN, TOTAL (UG/L)	ENDRIN, TOTAL (UG/L)	ETHION, TOTAL (UG/L)	HEPTA-CHLOR, TOTAL (UG/L)	HEPTA-CHLOR EPOXIDE TOTAL (UG/L)	LINDANE TOTAL (UG/L)
APR										
22...	--	--	--	--	--	--	--	--	--	--
JUL										
27...	--	--	--	--	--	--	--	--	--	--
AUG										
25...	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

DATE	MALA-THION, TOTAL (UG/L)	METH-OXY-CHLOR, TOTAL (UG/L)	METHYL PARA-THION, TOTAL (UG/L)	METHYL TRI-THION, TOTAL (UG/L)	MIREX, TOTAL (UG/L)	PARA-THION, TOTAL (UG/L)	PER-THANE TOTAL (UG/L)	TOX-APHENE, TOTAL (UG/L)	TOTAL TRI-THION (UG/L)
APR									
22...	--	--	--	--	--	--	--	--	--
JUL									
27...	--	--	--	--	--	--	--	--	--
AUG									
25...	.00	.00	.00	.00	.00	.00	.00	.00	.00

09306300 WHITE RIVER ABOVE RANGELY, CO-Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT					
18...	1735	535	353	510	--
31...	1025	451	92	112	--
31...	1115	451	63	77	--
NOV					
15...	1605	458	86	106	--
19...	1135	357	109	105	--
30...	1600	584	248	391	--
DEC					
15...	1130	293	80	63	--
16...	0930	310	48	40	--
31...	1510	316	75	64	--
JAN					
18...	1635	430	81	94	--
23...	1027	256	230	159	--
26...	1145	349	104	98	--
31...	1027	256	230	159	--
FEB					
21...	1140	486	371	487	--
28...	1540	322	62	54	--
MAR					
03...	0945	316	224	191	--
08...	1701	328	57	50	--
08...	1710	328	57	50	--
APR					
06...	1000	350	193	182	77
10...	1415	364	151	148	--
15...	0930	164	164	73	--
22...	1015	608	406	666	69
23...	1015	598	237	383	--
MAY					
01...	1400	872	694	1630	--
09...	1915	712	157	302	--
14...	1000	521	68	96	--
15...	0945	434	58	68	--
20...	1520	451	91	111	--
27...	1135	712	250	481	--
JUN					
07...	1343	1580	530	2260	--
14...	1300	856	228	527	--
18...	1110	507	57	78	--
20...	1330	418	40	45	--
21...	1100	--	57	--	--
28...	1230	298	49	39	--
JUL					
05...	1230	465	85	107	--
12...	1230	412	296	329	--
19...	1230	430	746	866	--
26...	1230	352	264	251	--

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)
JUL				
27...	1050	400	567	612
AUG				
02...	1230	280	110	83
09...	1600	190	55	28
16...	1300	358	307	297
23...	1230	262	161	114
30...	1330	316	7820	6670
SEP				
06...	1240	256	2230	1540
13...	1310	316	295	252
20...	1255	334	83	75
27...	1340	292	62	49

09306395 WHITE RIVER NEAR COLORADO-UTAH STATE LINE, UT

LOCATION.--Lat 40°00'50", long 109°04'48", in NW¼NE¼NE¼ sec.27, T.9 S., R.25 E., Uintah County, Hydrologic Unit 14050007, on right bank 900 ft (270 m) upstream from small right bank tributary, 2.7 mi (4.3 km) downstream from Colorado-Utah State line, and 7.5 mi (12.1 km) upstream from Evacuation Creek.

DRAINAGE AREA.--3,680 mi^2 (9,530 km^2), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1976 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 5,030 ft (1,533 m) from topographic map.

REMARKS.--Water-discharge records good except those for winter period, which are fair. Diversions for irrigation of about 31,900 acres (129 km^2) above station.

AVERAGE DISCHARGE.--5 years, 602 ft^3/s (17.05 m^3/s), 436,100 acre-ft/yr (538 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,470 ft^3/s (127 m^3/s) May 30, 1979, gage height, 7.20 ft (2.195 m); minimum, 10 ft^3/s (0.28 m^3/s) July 2, 3, 4, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,920 ft^3/s (54.4 m^3/s) June 9, gage height, 4.87 ft (1.484 m); minimum, 137 ft^3/s (3.88 m^3/s) Aug. 9, 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	346	446	410	365	373	355	516	972	1530	385	282	244
2	339	440	462	370	350	352	512	993	1550	360	263	243
3	322	433	395	385	305	352	515	1010	1520	443	222	233
4	305	431	373	393	232	354	448	1390	1620	481	191	224
5	288	427	378	381	280	341	444	1260	1640	469	177	240
6	280	428	394	395	317	339	393	1060	1560	423	171	334
7	271	424	386	388	334	348	397	999	1560	381	158	294
8	271	419	360	320	360	366	406	922	1630	347	148	378
9	276	415	340	320	342	350	410	789	1740	318	146	324
10	269	411	310	320	411	345	385	736	1670	252	142	361
11	276	402	350	320	329	333	402	666	1570	306	153	364
12	285	402	353	320	230	333	486	623	1360	435	173	479
13	314	414	380	318	257	330	516	614	1140	481	263	377
14	388	456	414	333	472	336	516	569	954	527	318	396
15	606	455	366	323	451	325	520	503	819	477	301	360
16	605	388	392	343	488	324	570	460	743	387	340	351
17	499	351	410	391	502	333	583	481	641	347	321	344
18	522	390	420	442	485	357	626	551	558	348	307	326
19	522	364	420	452	462	391	663	569	492	390	279	319
20	498	376	420	436	457	350	714	477	470	399	259	340
21	487	370	400	461	441	340	822	486	411	344	244	337
22	479	390	410	445	456	350	717	538	370	313	260	336
23	459	403	380	411	425	350	694	560	343	262	265	341
24	457	409	390	411	423	350	653	628	321	278	243	309
25	444	401	410	414	426	398	671	605	293	334	201	291
26	431	370	393	444	429	412	757	662	265	368	204	300
27	447	380	397	388	410	417	882	774	278	467	208	291
28	461	370	397	332	371	414	951	899	267	374	186	287
29	450	350	389	413	---	388	929	1160	364	339	205	278
30	438	370	385	403	---	414	938	1380	460	297	341	288
31	440	---	368	432	---	488	---	1400	---	282	380	---
TOTAL	12475	12085	12052	11869	10818	11235	18036	24736	28139	11614	7351	9589
MEAN	402	403	389	383	386	362	601	798	938	375	237	320
MAX	606	456	462	461	502	488	951	1400	1740	527	380	479
MIN	269	350	310	318	230	324	385	460	265	252	142	224
AC-FT	24740	23970	23910	23540	21460	22280	35770	49060	55810	23040	14580	19020

CAL YR 1980 TOTAL 265943 MEAN 727 MAX 3110 MIN 234 AC-FT 527500
WTR YR 1981 TOTAL 169999 MEAN 466 MAX 1740 MIN 142 AC-FT 337200

09306395 WHITE RIVER NEAR COLORADO-UTAH STATE LINE, UT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1976 to current year. Prior to 1979 water year, published in "Hydrologic and Climatologic Data" reports for Utah.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: October 1976 to current year.
WATER TEMPERATURES: October 1976 to current year.
SUSPENDED-SEDIMENT DISCHARGE: October 1976 to current year.

INSTRUMENTATION.--Specific conductance and temperature recorder since October 1976.

REMARKS.--Sediment loads computed on U.S.P.S. 69 pumping sediment sampler concentrations for days where concentrations are given. All other days computed using sediment-rating curves.

EXTREMES FOR PERIOD OF RECORD.--
SPECIFIC CONDUCTANCE: Maximum recorded (more than 20-percent missing record), 1,570 micromhos July 22, 1977; minimum recorded, 120 micromhos April 29, 1981.
WATER TEMPERATURES: Maximum recorded (more than 20-percent missing record), 31.0°C Aug. 9, 1978; minimum, 0.0°C on many days during winter period.
SEDIMENT CONCENTRATIONS: Maximum daily mean, 61,000 mg/L Sept. 8, 1978; minimum daily mean 50 mg/L Sept. 7, 1978.
SEDIMENT LOADS: Maximum daily, 412,000 tons (374,000 tonnes) Sept. 8, 1978; minimum daily, 1.0 ton (0.91 tonne) July 2, 3, 1977.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum recorded, 950 micromhos Mar. 18; minimum recorded, 320 micromhos, June 6, 9.
WATER TEMPERATURES: Maximum recrded, 27.5°C June 26; minimum, 0.0°C several days during Feb.
SEDIMENT CONCENTRATIONS: Maximum daily mean, 13,500 mg/L July 13; minimum daily mean, 62 mg/L Oct. 2.
SEDIMENT LOADS: Maximum daily, 23,100 tons (21,000 tonnes) May 4; minimum daily, 46 tons (42 tonnes) Aug. 10.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN DEMAND, CHEM-ICAL (HIGH LEVEL) (MG/L)	HARD-NESS (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)
OCT												
06...	1500	278	800	--	8.1	13.0	8.8	--	290	69	28	69
NOV												
21...	1400	406	880	877	7.8	.5	11.7	--	290	71	28	73
FEB												
19...	1300	554	770	757	7.5	.0	11.9	--	250	61	23	65
MAR												
18...	1200	364	950	884	7.4	8.5	--	--	300	71	30	78
APR												
16...	1530	569	760	741	7.7	16.0	--	--	260	63	24	55
JUN												
02...	1600	1530	460	437	7.6	16.5	7.5	24	170	46	14	21
JUL												
08...	1200	340	760	745	7.9	23.0	7.1	--	280	66	27	54
14...	1200	556	780	767	8.0	23.0	6.6	--	290	74	26	50
AUG												
25...	1015	200	850	815	8.6	20.5	7.6	40	290	69	29	66
SEP												
03...	1030	227	--	1090	7.7	--	7.1	--	350	87	32	71
24...	1330	305	710	667	8.1	12.5	7.6	43	--	--	--	--

09306395 WHITE RIVER NEAR COLORADO-UTAH STATE LINE, UT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFIDE TOTAL (MG/L AS S)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	BROMIDE DIS-SOLVED (MG/L AS BR)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)
OCT 06...	1.8	1.9	--	--	200	44	.3	--	11	525	.71	394
NOV 21...	1.9	2.3	210	--	170	37	.5	--	15	523	.71	573
FEB 19...	1.8	1.6	160	--	160	37	.3	--	12	457	.62	684
MAR 18...	2.0	1.7	190	--	230	41	.3	--	11	577	.78	567
APR 16...	1.5	1.7	160	--	170	27	.2	--	12	449	.61	690
JUN 02...	.7	1.6	110	--	70	9.2	.1	--	12	241	.33	996
JUL 08...	1.4	1.8	160	--	180	37	.2	--	13	476	.65	437
14...	1.3	2.4	190	--	160	33	.2	--	15	475	.65	713
AUG 25...	1.8	2.2	170	--	200	39	.3	--	13	521	.71	281
SEP 03...	1.8	4.1	190	--	250	46	.3	--	15	620	.84	380
24...	--	--	--	.1	--	--	--	.30	--	--	--	--

DATE	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	BORON, DIS-SOLVED (UG/L AS B)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)
OCT 06...	--	--	.00	--	--	--	--	.010	.000	50	<10	2
NOV 21...	--	--	.00	--	--	--	--	.000	--	70	--	--
FEB 19...	--	--	.15	--	--	--	--	.010	--	50	--	--
MAR 18...	--	--	.00	--	--	--	--	.010	--	60	--	--
APR 16...	--	--	.04	--	--	--	--	.040	.010	40	100	9
JUN 02...	--	--	.15	.130	--	--	.270	.020	--	20	--	--
JUL 08...	--	--	.09	--	--	--	--	--	.070	50	40	4
14...	--	--	.12	--	--	--	--	.010	--	50	--	--
AUG 25...	.01	.010	.02	.060	.62	.68	--	.020	.000	60	<10	4
SEP 03...	--	--	.00	--	--	--	--	.020	--	100	--	--
24...	--	--	--	.030	--	--	.030	--	--	--	--	--

DATE	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL)	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS-SOLVED (UG/L AS AS)	ARSENIC TOTAL IN BOT-TOM MA-TERIAL (UG/G AS AS)	BARIUM, DIS-SOLVED (UG/L AS BA)	BARIUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS BA)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE)	BERYL-LIUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD)	CADMIUM DIS-SOLVED (UG/L AS CD)
OCT 06...	--	0	--	1	--	--	--	--	--	--	--	<1
JUN 02...	--	20	--	1	--	--	--	--	--	--	--	1
AUG 25...	1600	10	2	2	7	--	80	0	<1	<1	0	<1
SEP 24...	--	0	--	1	--	59	--	--	--	--	--	<1

09306395 WHITE RIVER NEAR COLORADO-UTAH STATE LINE, UT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	CADMIUM RECOV. FM BOTTOM MATERIAL (UG/G AS CD)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	CHROMIUM, DISSOLVED (UG/L AS CR)	CHROMIUM, RECOV. FM BOTTOM MATERIAL (UG/G)	COBALT, RECOV. FM BOTTOM MATERIAL (UG/G AS CO)	COPPER, TOTAL RECOVERABLE (UG/L AS CU)	COPPER, DISSOLVED (UG/L AS CU)	COPPER, RECOV. FM BOTTOM MATERIAL (UG/G AS CU)	IRON, TOTAL RECOVERABLE (UG/L AS FE)	IRON, RECOV. FM BOTTOM MATERIAL (UG/G AS FE)	LEAD, TOTAL RECOVERABLE (UG/L AS PB)	LEAD, DISSOLVED (UG/L AS PB)
OCT 06...	--	--	20	--	--	--	2	--	--	--	--	0
JUN 02...	--	--	0	--	--	--	6	--	--	--	--	2
AUG 25...	1	0	10	3	10	8	5	15	2200	3200	4	0
SEP 24...	--	--	0	--	--	--	4	--	--	--	--	7

DATE	LEAD, RECOV. FM BOTTOM MATERIAL (UG/G AS PB)	LITHIUM TOTAL RECOVERABLE (UG/L AS LI)	LITHIUM DISSOLVED (UG/L AS LI)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	MANGANESE, RECOV. FM BOTTOM MATERIAL (UG/G)	MERCURY TOTAL RECOVERABLE (UG/L AS HG)	MERCURY DISSOLVED (UG/L AS HG)	MERCURY RECOV. FM BOTTOM MATERIAL (UG/G AS HG)	MOLYBDENUM, TOTAL RECOVERABLE (UG/L AS MO)	MOLYBDENUM, DISSOLVED (UG/L AS MO)	MOLYBDENUM, RECOV. FM BOTTOM MATERIAL (UG/G)
OCT 06...	--	--	--	--	--	--	.0	--	--	--	--
JUN 02...	--	--	--	--	--	--	.0	--	--	--	--
AUG 25...	10	20	24	60	200	.0	.0	.02	4	<10	<1
SEP 24...	--	--	17	--	--	--	.0	--	--	<10	--

DATE	NICKEL, TOTAL RECOVERABLE (UG/L AS NI)	NICKEL, DISSOLVED (UG/L AS NI)	NICKEL, RECOV. FM BOTTOM MATERIAL (UG/G AS NI)	SELENIUM, TOTAL (UG/L AS SE)	SELENIUM, DISSOLVED (UG/L AS SE)	SELENIUM, TOTAL IN BOTTOM MATERIAL (UG/G)	STRONTIUM, DISSOLVED (UG/L AS SR)	VANADIUM, DISSOLVED (UG/L AS V)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	ZINC, DISSOLVED (UG/L AS ZN)	ZINC, RECOV. FM BOTTOM MATERIAL (UG/G AS ZN)
OCT 06...	--	--	--	--	1	--	--	--	--	<3	--
JUN 02...	--	--	--	--	1	--	--	--	--	30	--
AUG 25...	4	4	10	1	1	0	--	.0	20	<3	17
SEP 24...	--	--	--	--	1	--	810	1.0	--	9	--

DATE	TIME	CARBON, ORGANIC DISSOLVED (MG/L AS C)	CYANIDE TOTAL (MG/L AS CN)	PHENOLS (UG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)	ALGAL GROWTH POTENTIAL, BOTTLE TEST (MG/L)
AUG 25...	1015	5.1	.00	0	.00	.3
SEP 24...	1330	4.9	--	0	--	--

09306395 WHITE RIVER NEAR COLORADO-UTAH STATE LINE, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. FALL DIAM. % FINER THAN .002 MM	SED. SUSP. FALL DIAM. % FINER THAN .004 MM	SED. SUSP. FALL DIAM. % FINER THAN .016 MM	SED. SUSP. FALL DIAM. % FINER THAN .062 MM	SED. SUSP. FALL DIAM. % FINER THAN .125 MM	SED. SUSP. FALL DIAM. % FINER THAN .250 MM	SED. SUSP. FALL DIAM. % FINER THAN .500 MM
NOV 21...	1415	451	214	261	20	25	42	77	88	98	100
MAR 31...	1410	410	362	401	62	70	82	96	97	100	--
APR 29...	1115	993	1210	3240	19	27	42	75	91	100	--
JUN 02...	1630	1340	1340	4850	24	28	38	72	91	100	--
AUG 17...	1130	326	3460	3050	55	74	97	99	99	99	100
SEP 03...	1100	227	1810	1110	50	65	94	97	98	100	--

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	771	660	660	620	620	620	820	420	340	500	846	913
2	788	640	640	620	620	620	820	420	400	500	841	909
3	797	640	660	620	640	640	820	460	380	500	839	863
4	802	640	640	620	640	660	840	520	380	500	843	747
5	816	640	640	620	660	660	840	480	380	500	852	712
6	844	640	640	720	660	680	840	440	360	460	856	723
7	820	640	660	780	660	660	840	420	360	460	856	740
8	800	640	660	740	660	660	860	440	340	688	849	708
9	780	640	640	700	640	660	840	440	340	683	840	674
10	760	660	640	700	640	660	820	460	380	711	856	659
11	760	680	620	700	660	680	820	460	400	726	855	650
12	760	660	620	720	640	700	800	480	380	732	843	621
13	760	680	640	720	660	700	720	480	420	765	818	625
14	760	680	660	740	640	700	680	480	460	762	774	641
15	720	680	620	740	640	680	680	480	480	701	816	654
16	720	680	620	720	620	680	680	500	500	698	816	675
17	720	680	620	700	600	700	600	500	520	686	841	692
18	700	680	600	680	580	700	560	500	540	708	840	702
19	700	680	600	660	640	780	540	500	520	704	827	706
20	700	700	600	640	680	880	520	500	500	681	814	710
21	680	740	600	640	640	880	540	520	480	694	820	707
22	680	820	600	640	620	860	500	520	480	715	817	698
23	680	760	600	660	600	860	520	500	480	775	827	699
24	660	720	600	680	580	840	560	480	480	800	830	678
25	660	700	620	680	580	860	560	480	480	747	829	631
26	660	680	620	660	600	840	560	500	500	771	834	655
27	660	700	620	640	600	860	500	500	500	802	843	659
28	640	660	620	640	600	880	500	500	500	836	860	662
29	640	660	620	640	---	840	460	480	500	851	870	668
30	640	680	620	620	---	840	460	440	500	849	875	688
31	640	---	620	620	---	820	---	380	---	856	904	---

09306395 WHITE RIVER NEAR COLORADO-UTAH STATE LINE, UT--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	18.5	13.5	7.5	4.0	.5	.5	1.0	.5	1.5	.5	7.5	4.0
2	18.0	13.5	7.5	5.0	.5	.5	.5	.5	1.0	.5	6.0	4.5
3	17.5	12.5	7.0	4.5	1.5	.5	1.0	.5	1.0	.5	7.0	3.5
4	17.0	12.5	7.0	4.0	3.5	1.5	2.0	.5	1.0	.5	9.0	4.5
5	17.0	12.5	8.0	4.5	3.5	2.5	3.0	1.5	1.5	.5	8.0	5.0
6	17.0	12.5	8.0	5.0	4.0	3.0	2.0	.5	1.0	.5	6.5	5.0
7	17.0	12.5	9.0	5.5	3.5	2.5	1.0	.5	1.5	.5	5.5	4.0
8	17.0	12.5	9.0	6.0	2.5	1.0	.5	.5	1.0	.5	7.5	3.5
9	16.5	12.5	8.5	5.5	1.5	.5	.5	.5	2.0	.5	9.0	4.0
10	16.0	12.0	8.0	5.0	.5	.5	.5	.5	.5	.5	9.0	5.0
11	15.5	11.0	7.0	5.0	.5	.5	.5	.5	.5	.5	7.5	5.0
12	13.0	11.5	7.5	6.0	.5	.5	.5	.5	1.5	.5	8.5	5.5
13	15.0	11.0	7.0	5.5	.5	.5	.5	.5	2.5	.5	8.0	5.0
14	13.5	11.5	5.5	4.0	.5	.5	.5	.5	2.0	.5	9.0	5.0
15	12.0	9.5	4.0	2.0	.5	.5	.5	.5	2.5	.5	10.5	5.5
16	9.5	7.5	2.0	.5	.5	.5	.5	.5	3.0	.5	9.0	6.5
17	9.0	6.5	.5	.5	.5	.5	1.0	.5	2.5	.0	9.0	5.5
18	10.0	7.0	.5	.5	.5	.5	1.0	.5	2.5	.0	10.0	5.5
19	10.0	7.0	.5	.5	.5	.5	1.0	.5	1.5	.0	10.0	6.0
20	10.5	7.0	.5	.5	.5	.5	1.0	.5	1.0	.0	9.0	6.5
21	10.5	7.0	.5	.5	.5	.5	1.0	.5	2.5	.0	8.0	5.5
22	10.5	8.0	.5	.5	1.0	.5	1.0	.5	2.5	.0	10.5	5.0
23	9.0	6.0	.5	.5	1.5	.5	1.0	.5	3.0	.5	12.5	7.0
24	8.0	5.0	1.0	.5	1.0	.5	.5	.5	3.5	.0	11.5	8.5
25	7.5	4.5	.5	.5	2.5	.5	1.0	.5	3.0	.0	11.0	7.5
26	6.0	5.0	.5	.5	3.0	1.0	.5	.5	.5	.0	11.5	7.5
27	6.5	5.0	.5	.5	3.0	1.0	.5	.5	6.0	.5	9.5	7.0
28	6.0	3.5	.5	.5	3.5	2.0	1.5	.5	7.5	3.0	8.5	7.0
29	5.5	2.5	.5	.5	3.0	1.0	1.5	.5	---	---	11.0	5.5
30	6.0	3.0	.5	.5	2.0	.5	1.0	.5	---	---	9.5	6.0
31	6.5	3.5	---	---	1.5	.5	.5	.5	---	---	9.0	4.0

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	10.0	5.5	20.0	15.5	19.5	16.5	24.0	20.5	26.5	22.0	22.0	17.5
2	11.0	6.0	18.5	16.0	19.0	16.0	24.5	19.0	27.0	21.0	22.5	18.5
3	9.5	7.0	16.0	12.5	18.5	16.5	25.5	20.5	27.0	22.0	23.0	17.5
4	10.0	5.5	14.5	11.0	19.0	16.5	25.0	20.0	27.5	21.5	23.0	18.5
5	11.0	5.5	15.5	11.5	20.0	16.5	26.5	20.5	27.0	20.5	20.5	17.0
6	12.0	6.5	15.0	12.5	20.0	17.5	26.0	21.5	27.5	20.5	18.5	16.0
7	11.0	9.0	14.5	10.5	19.5	17.5	26.5	21.5	27.5	20.5	20.5	16.5
8	12.5	8.0	12.5	11.0	20.5	17.5	27.5	20.5	26.5	20.0	21.5	14.5
9	14.5	8.5	14.0	10.0	20.5	18.0	25.5	22.0	26.5	20.0	21.5	17.5
10	16.0	10.5	16.0	11.0	21.0	18.0	26.5	20.5	21.5	18.5	20.5	18.5
11	15.5	11.5	15.5	12.5	21.0	17.5	25.0	21.5	21.0	18.0	21.5	14.0
12	15.0	10.0	16.0	12.0	21.5	18.0	25.5	22.0	23.5	18.0	18.5	15.5
13	17.0	11.5	16.5	11.5	20.0	17.5	25.0	20.0	21.0	19.0	21.5	17.0
14	17.0	12.0	18.0	12.5	17.0	15.0	26.0	22.0	22.5	17.0	21.5	17.5
15	15.5	13.5	17.5	14.0	18.0	13.0	26.5	21.5	21.5	18.5	21.5	17.0
16	16.5	12.0	16.5	13.5	19.0	14.0	24.0	21.5	23.0	16.5	21.5	17.0
17	18.5	13.5	15.0	13.0	20.0	15.0	25.5	19.5	24.0	18.5	20.5	16.0
18	18.0	14.0	18.5	13.0	20.5	16.0	26.0	21.0	25.0	19.0	20.0	15.5
19	16.5	13.5	17.5	14.5	22.0	16.5	25.0	21.0	25.0	20.0	20.0	15.0
20	16.5	12.5	16.5	14.0	23.5	17.5	25.0	19.5	25.5	19.5	20.0	16.0
21	14.0	12.5	13.5	11.5	23.5	18.5	25.0	19.0	22.5	18.5	20.5	16.0
22	15.5	11.0	13.5	10.5	25.0	18.0	25.5	20.0	23.5	17.5	22.0	17.0
23	17.0	11.5	16.5	11.0	24.5	20.0	24.0	19.5	24.5	18.5	21.0	16.0
24	18.5	13.0	18.5	14.0	26.0	19.5	23.5	18.5	24.5	19.0	20.5	17.0
25	19.0	14.5	19.0	14.5	27.0	20.5	25.0	19.5	26.0	19.5	18.0	15.0
26	18.5	15.0	19.5	16.0	27.5	22.0	24.0	19.0	25.5	20.0	17.0	13.0
27	18.0	14.5	20.0	16.0	24.0	21.0	22.5	17.5	26.0	20.5	17.5	12.5
28	17.5	14.0	19.0	16.0	24.5	20.0	23.5	18.5	26.0	20.5	17.5	13.0
29	18.5	14.0	19.5	16.5	26.0	20.0	24.5	19.0	25.0	19.5	16.5	13.5
30	19.5	15.0	19.0	16.5	26.0	21.0	25.0	20.5	21.5	16.5	18.0	13.5
31	---	---	19.0	16.5	---	---	26.5	21.0	22.0	17.0	---	---

09306395 WHITE RIVER NEAR COLORADO-UTAH STATE LINE, UT--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
		OCTOBER			NOVEMBER			DECEMBER	
1	346	91	85	446	203	244	410	224	248
2	339	62	57	440	182	216	462	202	252
3	322	79	69	433	182	213	395	199	212
4	305	66	54	431	163	190	373	198	199
5	288	64	50	427	176	203	378	198	202
6	280	92	70	428	173	200	394	205	218
7	271	119	87	424	166	190	386	192	200
8	271	130	95	419	166	188	360	189	184
9	276	127	95	415	185	207	340	196	180
10	269	126	92	411	186	206	310	202	169
11	276	132	98	402	144	156	350	208	197
12	285	146	112	402	142	154	353	175	167
13	314	121	103	414	180	201	380	139	143
14	388	428	448	456	406	500	414	108	121
15	606	1040	1700	455	198	243	366	107	106
16	605	870	1420	388	195	204	392	115	122
17	499	636	857	351	212	201	410	114	126
18	522	544	767	390	241	254	420	105	119
19	522	522	736	364	225	221	420	113	128
20	498	444	597	376	220	223	420	112	127
21	487	372	489	370	224	224	400	111	120
22	479	342	442	390	237	250	410	115	127
23	459	286	354	403	223	243	380	107	110
24	457	252	311	409	212	234	390	130	137
25	444	274	328	401	212	230	410	99	110
26	431	272	317	370	218	218	393	91	97
27	447	276	333	380	209	214	397	82	88
28	461	244	304	370	203	203	397	85	91
29	450	198	241	350	215	203	389	78	82
30	438	304	360	370	228	228	385	78	81
31	440	204	242	---	---	---	368	101	100

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
		JANUARY			FEBRUARY			MARCH	
1	365	120	118	373	390	393	355	326	312
2	370	128	128	350	400	378	352	302	287
3	385	129	134	305	419	345	352	285	271
4	393	102	108	232	386	242	354	285	272
5	381	107	110	280	410	310	341	270	249
6	395	109	116	317	418	358	339	250	229
7	388	104	109	334	415	374	348	239	225
8	320	105	91	360	410	399	366	243	240
9	320	113	98	342	425	392	350	229	216
10	320	121	105	411	470	522	345	222	207
11	320	125	108	329	443	394	333	215	193
12	320	145	125	230	435	270	333	209	188
13	318	172	148	257	447	310	330	205	183
14	333	195	175	472	480	612	336	205	186
15	323	195	170	451	491	598	325	207	182
16	343	235	218	488	479	631	324	205	179
17	391	299	316	502	475	644	333	205	184
18	442	320	382	485	468	613	357	191	184
19	452	339	414	462	480	599	391	335	354
20	436	338	398	457	475	586	350	250	236
21	461	373	464	441	468	557	340	293	269
22	445	375	451	456	463	570	350	252	238
23	411	405	449	425	455	522	350	200	189
24	411	415	461	423	462	528	350	258	244
25	414	409	457	426	402	462	398	470	505
26	444	392	470	429	391	453	412	384	427
27	388	392	411	410	380	421	417	573	645
28	332	393	352	371	352	353	414	464	519
29	413	422	471	---	---	---	388	393	412
30	403	410	446	---	---	---	414	449	502
31	432	408	476	---	---	---	488	498	656

09306395 WHITE RIVER NEAR COLORADO-UTAH STATE LINE, UT--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
		APRIL			MAY			JUNE	
1	516	343	478	972	1040	2730	1530	1760	7270
2	512	377	521	993	1100	2950	1550	1690	7070
3	515	594	826	1010	1550	4230	1520	1660	6810
4	448	445	538	1390	6150	23100	1620	1820	7960
5	444	421	505	1260	2970	10100	1640	1680	7440
6	393	502	533	1060	1350	3860	1560	1530	6440
7	397	410	439	999	936	2520	1560	1660	6990
8	406	405	444	922	724	1800	1630	2140	9420
9	410	264	292	789	580	1240	1740	2560	12000
10	385	221	230	736	502	998	1670	2390	10800
11	402	218	237	666	460	827	1570	1790	7590
12	486	341	447	623	353	594	1360	1240	4550
13	516	439	612	614	318	527	1140	1160	3570
14	516	396	552	569	299	459	954	903	2330
15	520	338	475	503	276	375	819	672	1490
16	570	415	639	460	248	308	743	493	989
17	583	470	740	481	227	295	641	462	800
18	626	700	1180	551	260	387	558	488	735
19	663	785	1410	569	495	760	492	488	648
20	714	875	1690	477	355	457	470	408	518
21	822	1410	3130	486	260	341	411	357	396
22	717	765	1480	538	254	369	370	358	358
23	694	490	918	560	315	476	343	338	313
24	653	375	661	628	321	544	321	303	263
25	671	430	779	605	308	503	293	284	225
26	757	740	1510	662	371	663	265	250	179
27	882	1360	3240	774	583	1220	278	4350	3270
28	951	1560	4010	899	1570	3810	267	4200	3030
29	929	1150	2880	1160	2170	6800	364	837	823
30	938	978	2480	1380	1360	5070	460	618	768
31	---	---	---	1400	1890	7140	---	---	---
		JULY			AUGUST			SEPTEMBER	
1	385	346	360	282	285	217	244	2410	1590
2	360	440	428	263	290	206	243	1570	1030
3	443	1820	2180	222	301	180	233	1700	1070
4	481	705	916	191	288	149	224	784	474
5	469	405	513	177	285	136	240	480	311
6	423	316	361	171	244	113	334	1100	992
7	381	278	286	158	153	65	294	870	691
8	347	236	221	148	138	55	378	1280	1310
9	318	246	211	146	150	59	324	1010	884
10	252	202	137	142	120	46	361	1720	1680
11	306	292	241	153	130	54	364	1040	1020
12	435	7050	8280	173	193	90	479	5800	7500
13	481	13500	17500	263	2880	2050	377	3060	3110
14	527	2400	3410	318	4380	3760	396	2540	2720
15	477	351	452	301	1130	918	360	1690	1640
16	387	360	376	340	1500	1380	351	1080	1020
17	347	312	292	321	2450	2120	344	630	585
18	348	324	304	307	990	821	326	580	511
19	390	357	376	279	749	564	319	470	405
20	399	350	377	259	640	448	340	510	468
21	344	345	320	244	536	353	337	470	428
22	313	318	269	260	516	362	336	377	342
23	262	296	209	265	522	373	341	351	323
24	278	1120	841	243	445	292	309	244	204
25	334	4960	4470	201	386	209	291	109	86
26	368	5070	5040	204	343	189	300	102	83
27	467	4220	5320	208	350	197	291	122	96
28	374	920	929	186	400	201	287	108	84
29	339	432	395	205	579	320	278	112	84
30	297	314	252	341	4910	4520	288	132	103
31	282	323	246	380	3560	3650	---	---	---
TOTAL	11614	---	55512	7351	---	24097	9589	---	30844
YEAR	169999		397862						

09339900 EAST FORK SAN JUAN RIVER ABOVE SAND CREEK, NEAR PAGOSA SPRINGS, CO

LOCATION.--Lat 39°23'23", long 106°50'26", Archuleta County, Hydrologic Unit 14080101, on right bank 0.3 mi (0.5 km) upstream from Sand Creek, 4.0 mi (6.4 km) upstream from West Fork San Juan River, and 13 mi (21 km) northeast of Pagosa Springs.

DRAINAGE AREA.--64.1 mi² (166.0 km²).

PERIOD OF RECORD.--October 1956 to current year. Prior to October 1959, published as San Juan River above Sand Creek, near Pagosa Springs.

REVISED RECORDS.--WSP 1713: 1957.

GAGE.--Water-stage recorder. Altitude of gage is 8,900 ft (2,713 m), from topographic map.

REMARKS.--Records good except those for winter period, which are poor. Diversions above station for irrigation of about 500 acres (2.0 km²) of hay meadows above station. Several observations of specific conductance and water temperature were obtained and are published elsewhere in this report.

AVERAGE DISCHARGE.--25 years, 83.9 ft³/s (2.376 m³/s), 60,790 acre-ft/yr (75.0 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,260 ft³/s (64.0 m³/s) Sept. 14, 1970, gage height, 6.75 ft (2.057 m), from rating curve extended above 460 ft³/s (13 m³/s), on basis of slope-area measurement at gage height 6.13 ft (1.868 m); minimum daily determined, 3.4 ft³/s (0.096 m³/s) Dec. 26, 1958.

EXTREMES OUTSIDE PERIOD OF RECORD.--Greatest flood since at least 1885 occurred Oct. 5, 1911.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 470 ft³/s (13.3 m³/s) at 2130 June 8, gage height, 4.36 ft (1.329 m), no peak above base of 500 ft³/s (14 m³/s); minimum daily, 7.0 ft³/s (0.20 m³/s) Feb. 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17	17	12	14	7.5	11	13	187	262	88	41	32
2	16	17	13	14	8.5	11	14	230	250	92	38	26
3	16	17	14	13	10	11	14	286	278	72	37	24
4	16	17	14	13	10	10	12	258	222	61	33	24
5	15	17	14	13	9.5	10	13	218	222	55	32	29
6	15	17	14	10	9.5	11	15	175	302	51	30	33
7	14	17	14	11	9.5	10	17	140	340	50	29	30
8	14	17	13	12	9.0	11	18	122	375	51	40	29
9	14	17	14	11	10	11	19	104	380	60	49	30
10	14	17	10	11	9.0	11	25	97	355	60	43	28
11	14	16	12	12	7.0	11	33	94	330	55	70	26
12	14	16	14	11	10	11	37	86	286	52	70	28
13	14	18	15	11	10	12	39	79	246	46	55	26
14	15	18	14	10	10	12	40	79	198	51	47	26
15	22	16	14	11	11	12	42	92	155	52	43	24
16	18	14	15	12	11	13	42	94	131	90	42	23
17	19	14	15	12	12	12	60	90	120	167	39	23
18	18	14	16	10	12	12	75	89	117	111	36	23
19	19	14	16	10	12	12	80	109	111	90	33	21
20	20	14	15	9.5	13	12	83	122	111	75	32	21
21	20	14	14	9.5	10	12	79	122	109	61	30	20
22	19	14	15	10	9.0	12	86	111	104	55	33	19
23	18	13	15	11	10	13	92	106	92	56	30	32
24	16	14	12	11	11	13	106	106	83	82	28	37
25	16	13	12	10	11	14	117	109	79	59	27	29
26	17	13	14	9.5	12	14	128	131	80	59	28	29
27	17	8.4	15	9.0	10	14	133	169	75	60	28	26
28	16	9.0	15	11	10	12	135	234	71	52	28	24
29	15	9.4	14	11	---	12	142	226	79	47	30	24
30	16	13	13	9.0	---	12	160	238	86	42	30	23
31	17	---	13	10	---	12	---	250	---	42	30	---
TOTAL	511	444.8	430	341.5	283.5	366	1869	4553	5649	2044	1161	789
MEAN	16.5	14.8	13.9	11.0	10.1	11.8	62.3	147	188	65.9	37.5	26.3
MAX	22	18	16	14	13	14	160	286	380	167	70	37
MIN	14	8.4	10	9.0	7.0	10	12	79	71	42	27	19
AC-FT	1010	882	853	677	562	726	3710	9030	11200	4050	2300	1560

CAL YR 1980 TOTAL 34974.8 MEAN 95.6 MAX 734 MIN 7.0 AC-FT 69370
WTR YR 1981 TOTAL 18441.8 MEAN 50.5 MAX 380 MIN 7.0 AC-FT 36580

NOTE.--NO GAGE-HEIGHT RECORD DEC. 7 TO MAR. 16.

09342500 SAN JUAN RIVER AT PAGOSA SPRINGS, CO

LOCATION.--Lat 37°15'58", long 107°00'37", in NE¼SW¼ sec.13, T.35 N., R.2 W., Archuleta County, Hydrologic Unit 14080101, on right bank at former bridge site in Pagosa Springs, 0.2 mi (0.3 km) upstream from McCabe Creek, 0.6 mi (1.0 km) downstream from bridge on U.S. Highway 160, and 2.0 mi (3.2 km) upstream from Mill Creek.

DRAINAGE AREA.--298 mi² (772 km²).

PERIOD OF RECORD.--October 1910 to December 1914, May 1935 to current year. Monthly discharge only for some periods, published in WSP 1313.

REVISED RECORDS.--WSP 1313: 1914(M).

GAGE.--Water-stage recorder. Datum of gage is 7,052.04 ft (2,149.462 m), National Geodetic Vertical Datum of 1929. Jan. 29 to Mar. 6, 1911, nonrecording gage at site 0.5 mi (0.8 km) upstream at different datum. Mar. 7 to Oct. 4, 1911, nonrecording gage at present site at different datum. Nov. 23, 1911, to Nov. 14, 1914, nonrecording gage at site 300 ft (91 m) downstream at different datum.

REMARKS.--Records good. Diversions for irrigation of large areas above station. Several observations of specific conductance and water temperature were obtained and are published elsewhere in this report.

AVERAGE DISCHARGE.--50 years, 366 ft³/s (10.37 m³/s) 265,200 acre-ft/yr (327 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 25,000 ft³/s (708 m³/s) Oct. 5, 1911, gage height, 17.8 ft (5.43 m), from floodmarks, from velocity-area study; minimum daily, 9.7 ft³/s (0.27 m³/s) Oct. 5, 6, 1956.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known since at least 1885, that of Oct. 5, 1911. Flood of June 29, 1927, reached a stage of 13.5 ft (4.11 m), discharge about 16,000 ft³/s (453 m³/s), from information by local residents.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,500 ft³/s (42 m³/s) and maximum (*):

Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)
May 3	0830	1,780	50.4	4.70	1.433	June 8	2230	*1,850	52.4	4.91	1.497

Minimum daily discharge, 29 ft³/s (0.82 m³/s) Feb. 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	77	78	62	57	31	45	62	966	1090	268	147	106
2	73	77	58	57	33	44	76	1230	1070	320	149	95
3	72	76	61	56	41	45	80	1600	1230	222	140	82
4	66	74	60	53	42	44	70	1230	980	177	124	72
5	62	72	62	56	41	42	58	1040	938	163	114	82
6	60	74	62	45	40	46	72	854	1310	138	103	120
7	58	74	61	45	40	40	88	696	1420	132	97	99
8	58	74	50	52	37	46	92	600	1510	136	97	94
9	58	76	61	47	42	44	95	510	1470	165	126	116
10	58	74	41	48	41	47	145	424	1310	187	120	105
11	58	71	52	50	29	45	182	396	1160	182	202	103
12	58	68	58	51	41	45	203	368	1020	163	224	105
13	60	72	65	47	40	47	192	328	854	151	163	114
14	64	77	57	42	42	50	200	320	720	134	147	110
15	105	64	60	44	45	48	216	372	590	158	124	106
16	97	68	62	47	46	53	211	392	490	154	116	101
17	88	66	65	52	48	52	282	384	452	416	114	95
18	87	65	66	46	50	46	392	352	420	304	114	88
19	88	64	68	41	51	50	396	440	416	265	106	88
20	95	62	64	40	53	55	416	480	412	222	99	88
21	95	61	60	39	45	51	384	448	376	185	94	85
22	95	58	60	44	38	50	432	412	384	163	97	83
23	92	60	64	46	42	56	452	396	296	177	103	85
24	80	61	53	46	47	64	530	400	250	262	90	165
25	80	60	51	40	46	66	595	404	230	219	85	122
26	80	60	58	40	47	70	640	515	222	227	101	112
27	85	53	62	36	41	74	660	615	213	279	80	103
28	77	56	65	47	42	65	684	924	200	219	78	94
29	71	57	60	47	---	60	738	917	232	180	77	88
30	76	62	55	36	---	66	834	973	250	158	88	88
31	80	---	57	46	---	58	---	1040	---	145	87	---
TOTAL	2353	2014	1840	1443	1181	1614	9477	20026	21515	6271	3606	2994
MEAN	75.9	67.1	59.4	46.5	42.2	52.1	316	646	717	202	116	99.8
MAX	105	78	68	57	53	74	834	1600	1510	416	224	165
MIN	58	53	41	36	29	40	58	320	200	132	77	72
AC-FT	4670	3990	3650	2860	2340	3200	18800	39720	42670	12440	7150	5940

CAL YR 1980 TOTAL 169554 MEAN 463 MAX 3430 MIN 27 AC-FT 336300
WTR YR 1981 TOTAL 74334 MEAN 204 MAX 1600 MIN 29 AC-FT 147400

09343300 RIO BLANCO BELOW BLANCO DIVERSION DAM, NEAR PAGOSA SPRINGS, CO

LOCATION.--Lat 37°12'11", long 106°48'45", in NW¼ sec.11, T.34 N., R.1 E., Archuleta County, Hydrologic Unit 14080101, on left bank 250 ft (76 m) downstream from Blanco Diversion Dam, 1.1 mi (1.8 km) downstream from Leche Creek, and 12 mi (19.2 km) southeast of Pagosa Springs.

DRAINAGE AREA.--69.1 mi² (179.2 km²).

PERIOD OF RECORD.--March 1971 to current year.

GAGE.--Water-stage recorder. Datum of gage is 7,848.81 ft (2,392.3 m), National Geodetic Vertical Datum of 1929 (levels by U.S. Bureau of Reclamation).

REMARKS.--Flows controlled by diversion dam upstream.

COOPERATION.--Records collected and computed by U.S. Bureau of Reclamation.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, about 1,200 ft³/s (34.0 m³/s) May 19, 1972; minimum daily, 6.9 ft³/s (0.20 m³/s) Dec. 29, 1976.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 470 ft³/s (13.3 m³/s) May 3, gage height, 3.97 ft (1.210 m); minimum daily, 7.7 ft³/s (0.22 m³/s) Jan. 26.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	44	19	19	8.7	15	26	52	37	22	21	21
2	14	34	17	19	8.7	15	31	71	24	20	21	21
3	13	25	19	18	8.0	15	26	93	34	20	21	20
4	14	26	17	17	8.5	13	23	45	23	20	21	21
5	13	33	17	16	8.5	14	19	42	22	20	21	23
6	12	32	17	12	8.5	15	23	41	34	20	21	21
7	12	30	17	14	8.5	14	23	42	42	20	21	22
8	12	28	15	14	8.5	13	21	42	41	20	21	21
9	12	25	16	13	9.5	13	21	41	39	20	23	21
10	11	24	12	13	10	13	20	41	32	20	21	21
11	11	22	17	12	8.5	13	20	41	26	20	21	21
12	12	22	20	13	9.0	14	20	41	22	20	20	21
13	12	33	18	11	11	16	21	41	22	20	20	21
14	14	29	28	10	10	15	21	42	22	20	20	21
15	21	23	18	9.1	11	16	21	42	22	20	20	20
16	29	23	21	12	14	16	20	42	22	20	20	21
17	27	22	25	12	18	15	20	42	22	20	20	20
18	32	21	27	10	20	15	20	42	23	20	20	20
19	31	20	24	8.3	23	15	20	43	21	20	20	20
20	41	20	21	8.5	21	16	20	41	21	21	20	20
21	38	18	20	8.5	15	15	20	41	21	20	20	20
22	33	18	19	9.3	12	16	22	41	21	20	20	21
23	26	18	18	9.5	13	20	23	41	21	20	20	21
24	22	20	16	8.9	15	25	25	41	21	20	20	21
25	22	19	15	9.3	15	26	29	41	21	20	20	21
26	22	18	16	7.7	15	34	26	41	21	20	20	20
27	23	15	19	8.5	13	28	24	45	21	20	20	21
28	21	17	21	1.0	13	22	25	48	21	20	20	23
29	22	20	19	9.3	---	22	30	42	21	21	20	22
30	33	21	18	8.7	---	22	34	47	20	21	20	24
31	42	---	19	8.7	---	20	---	43	---	21	20	---
TOTAL	661	720	585	350.3	343.9	541	694	1398	760	626	633	631
MEAN	21.3	24.0	18.9	11.3	12.3	17.5	23.1	45.1	25.3	20.2	20.4	21.0
MAX	42	44	28	19	23	34	34	93	42	22	23	24
MIN	11	15	12	1.0	8.0	13	19	41	20	20	20	20
AC-FT	1310	1430	1160	695	682	1070	1380	2770	1510	1240	1260	1250

CAL YR 1980 TOTAL 14229.5 MEAN 38.9 MAX 466 MIN 7.2 AC-FT 28220
WTR YR 1981 TOTAL 7943.2 MEAN 21.8 MAX 93 MIN 1.0 AC-FT 15760

09344000 NAVAJO RIVER AT BANDED PEAK RANCH, NEAR CHROMO, CO

LOCATION.--Lat 37°05'07", long 106°41'20", in NW¼ sec.24, T.33 N., R.2 E., Archuleta County, Hydrologic Unit 14080101, on left bank at downstream side of private bridge on Banded Peak Ranch, 0.5 mi (0.8 km) downstream from Aspen Creek, 4.0 mi (6.4 km) downstream from East Fork, and 9 mi (14 km) northeast of Chromo.

DRAINAGE AREA.--69.8 mi^2 (181 km^2).

PERIOD OF RECORD.--October 1936 to current year. Monthly discharge only for some periods, published in WSP 1313.

GAGE.--Water-stage recorder. Datum of gage is 7,940.6 ft (2,420.29 m) National Geodetic Vertical Datum of 1929 (river-profile survey). Prior to Oct. 1, 1949, at datum 3.00 ft (0.914 m) higher.

REMARKS.--Records good except those for winter period, which are poor. Diversions for irrigation of about 430 acres (1.74 km^2) above station. Several observations of water temperature were obtained and are published elsewhere in this report.

COOPERATION.--Records collected and computed by Colorado Division of Water Resources and reviewed by Geological Survey.

AVERAGE DISCHARGE.-- 45 years, 104 ft^3/s (2.945 m^3/s), 75,350 acre-ft/yr (92.9 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,480 ft^3/s (41.9 m^3/s) June 9, 1980, gage height, 4.55 ft (1.387 m), from rating curve extended above 840 ft^3/s (24 m^3/s), on basis of float-area measurement at gage height 4.44 ft (1.353 m); maximum gage height, 7.02 ft (2.140 m) present datum, May 13, 1941; minimum daily discharge, 8.4 ft^3/s (0.24 m^3/s) Sept. 29, 1960, result of temporary blockage by channel alteration upstream.

EXTREMES OUTSIDE PERIOD OF RECORD.--A major flood occurred Oct. 5, 1911.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 585 ft^3/s (16.6 m^3/s) at 2030 June 9, gage height, 3.23 ft (0.984 m), only peak above base of 500 ft^3/s (14 m^3/s); minimum daily, 24 ft^3/s (0.68 m^3/s) Feb. 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	34	48	35	35	27	28	38	221	270	114	44	43
2	34	48	36	35	27	29	43	280	255	123	41	40
3	34	46	37	34	28	29	40	444	288	95	39	39
4	35	45	36	34	28	29	37	308	240	91	36	39
5	34	44	36	34	28	28	34	248	235	78	32	54
6	34	44	38	32	28	30	42	203	300	75	33	56
7	35	43	39	32	28	29	46	165	386	79	34	48
8	32	42	37	32	28	28	49	132	412	90	41	48
9	30	42	37	32	29	28	55	117	416	104	44	46
10	29	41	36	32	27	29	67	117	390	88	48	43
11	29	41	36	32	24	29	77	117	362	108	70	46
12	32	41	37	32	25	29	77	113	311	82	59	70
13	36	46	37	31	26	29	83	113	260	74	52	56
14	40	44	37	30	26	30	89	114	216	86	45	51
15	47	37	37	30	26	30	90	129	176	76	43	46
16	41	38	37	30	26	30	95	135	153	70	44	50
17	43	37	38	30	26	30	120	130	140	76	43	58
18	43	36	38	30	27	30	115	146	132	70	56	58
19	44	35	38	30	28	30	130	175	126	65	53	51
20	44	35	37	30	28	30	120	186	126	60	46	47
21	43	35	37	31	27	30	120	173	126	55	42	43
22	42	34	37	30	26	30	125	162	122	51	43	42
23	42	34	37	30	27	34	140	158	114	50	42	54
24	40	34	36	30	28	37	160	162	109	53	37	66
25	40	33	36	30	28	37	180	171	103	50	34	56
26	41	33	36	30	28	42	185	188	100	54	34	52
27	42	34	36	30	27	39	190	218	94	61	34	47
28	40	35	36	30	27	36	182	265	86	50	40	44
29	42	35	36	30	---	35	188	245	84	45	38	44
30	44	35	35	30	---	37	205	232	94	43	37	43
31	47	---	35	30	---	35	---	258	---	39	42	---
TOTAL	1193	1175	1136	968	758	976	3122	5825	6226	2255	1326	1480
MEAN	38.5	39.2	36.6	31.2	27.1	31.5	104	188	208	72.7	42.8	49.3
MAX	47	48	39	35	29	42	205	444	416	123	70	70
MIN	29	33	35	30	24	28	34	113	84	39	32	39
AC-FT	2370	2330	2250	1920	1500	1940	6190	11550	12350	4470	2630	2940

CAL YR 1980 TOTAL 55281 MEAN 151 MAX 1080 MIN 27 AC-FT 109600
WTR YR 1981 TOTAL 26440 MEAN 72.4 MAX 444 MIN 24 AC-FT 52440

09344400 NAVAJO RIVER BELOW OSO DIVERSION DAM, NEAR CHROMO, CO

LOCATION.--Lat 37°01'48", long 106°44'16", in NE¼ sec.9, T.32 N., R.2 E., Archuleta County, Hydrologic Unit 14080101, on left bank 600 ft (183 m) downstream from Oso Diversion Dam, 5.5 mi (8.8 km) east of Chromo, and 6 mi (9.6 km) upstream from Little Navajo River.

DRAINAGE AREA.--100.5 mi² (260.6 km²).

PERIOD OF RECORD.--March 1971 to current year.

GAGE.--Water-stage recorder. Datum of gage is 7,647.71 ft (2,331.0 m), National Geodetic Vertical Datum of 1929 (levels by U.S. Bureau of Reclamation).

REMARKS.--Flows controlled by diversion dam upstream.

COOPERATION.--Records collected and computed by U.S. Bureau of Reclamation.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, about 870 ft³/s (24.6 m³/s) May 11, 1973; minimum daily, 10 ft³/s (0.28 m³/s) Oct. 10, 11, 1981.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 112 ft³/s (3.17 m³/s) May 2, gage height, 2.22 ft (0.677 m); minimum daily, 10 ft³/s (0.28 m³/s) Oct. 10, 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16	48	38	37	28	32	39	91	75	55	48	44
2	16	47	38	37	27	33	46	94	59	56	44	39
3	18	45	39	36	25	33	43	94	60	56	44	37
4	18	42	38	36	26	32	39	92	58	55	38	37
5	17	41	38	37	27	32	35	92	58	55	32	45
6	16	41	41	34	27	32	44	92	58	56	30	58
7	14	40	41	34	28	31	45	92	57	56	34	47
8	14	38	38	35	28	30	39	92	59	56	41	51
9	11	35	38	32	30	30	38	92	58	56	47	47
10	10	33	37	32	30	31	40	92	58	56	48	41
11	10	32	43	32	25	31	41	92	58	56	74	44
12	14	36	43	32	27	31	43	92	58	56	68	73
13	15	48	35	32	28	32	43	92	58	57	58	57
14	23	46	38	31	28	32	44	92	58	56	51	53
15	46	38	38	31	28	32	39	92	58	56	47	48
16	35	38	39	32	28	32	39	92	58	56	47	50
17	37	38	40	32	30	31	38	92	58	56	46	59
18	37	37	41	32	31	29	38	92	58	56	53	61
19	38	38	40	30	32	30	38	92	58	56	57	52
20	39	37	40	30	32	32	38	92	56	55	46	48
21	38	36	38	30	30	32	38	92	56	56	42	45
22	36	36	38	30	26	32	39	92	56	56	44	44
23	32	37	39	30	29	34	39	92	56	55	42	56
24	27	38	37	30	30	34	38	92	56	56	37	76
25	28	36	36	29	30	37	38	92	55	55	35	61
26	31	36	37	29	31	43	38	92	55	65	35	54
27	34	35	37	29	28	43	38	92	55	60	34	49
28	30	40	37	32	28	38	39	93	55	51	43	47
29	32	38	37	31	---	36	40	93	55	48	42	47
30	38	37	37	30	---	38	58	93	55	41	39	45
31	44	---	37	29	---	34	---	92	---	42	42	---
TOTAL	814	1167	1193	993	797	1029	1214	2858	1732	1702	1388	1515
MEAN	26.3	38.9	38.5	32.0	28.5	33.2	40.5	92.2	57.7	54.9	44.8	50.5
MAX	46	48	43	37	32	43	58	94	75	65	74	76
MIN	10	32	35	29	25	29	35	91	55	41	30	37
AC-FT	1610	2310	2370	1970	1580	2040	2410	5670	3440	3380	2750	3010

CAL YR 1980 TOTAL 21135 MEAN 57.7 MAX 341 MIN 10 AC-FT 41920
WTR YR 1981 TOTAL 16402 MEAN 44.9 MAX 94 MIN 10 AC-FT 32530

09345200 LITTLE NAVAJO RIVER BELOW LITTLE OSO DIVERSION DAM, NEAR CHROMO, CO

LOCATION.--Lat 37°04'32", long 106°48'38", in SW¼ sec.23, T.33 N., R.1 E., Archuleta County, Hydrologic Unit 14080101, on right bank at Little Oso Diversion Dam, 3.5 mi (5.6 km) northeast of Chromo, and 4.0 mi (6.4 km) upstream from confluence with Navajo River.

DRAINAGE AREA.--14.2 mi² (36.8 km²).

PERIOD OF RECORD.--June 1971 to current year.

GAGE.--Water-stage recorder. Datum of gage is 7,756.10 ft (2,364.1 m), National Geodetic Vertical Datum of 1929 (levels by U.S. Bureau of Reclamation).

REMARKS.--Flows controlled by diversion dam upstream.

COOPERATION.--Records collected and computed by U.S. Bureau of Reclamation.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 235 ft³/s (6.66 m³/s) May 30, 1979; no flow Apr. 14, 1974.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 233 ft³/s (6.60 m³/s) May 20, gage height, 2.09 ft (0.637 m); minimum daily, 1.4 ft³/s (0.040 m³/s) Jan. 27, Sept. 2-4, 21.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.4	4.4	2.4	2.6	1.7	2.2	3.5	27	28	7.2	3.0	1.5
2	2.4	4.4	2.4	2.6	1.6	2.1	4.3	28	25	12	2.6	1.4
3	2.4	4.1	2.4	2.6	1.9	2.2	4.0	27	35	4.9	2.6	1.4
4	2.4	3.9	2.5	2.5	1.9	2.1	3.6	27	29	3.6	2.4	1.4
5	2.4	3.9	2.5	2.4	1.9	2.2	3.5	27	26	3.2	2.1	2.6
6	2.2	3.9	2.6	1.7	1.7	2.5	4.4	27	26	3.0	2.1	3.1
7	2.2	3.8	2.6	1.9	1.7	2.9	5.6	27	26	3.3	2.2	2.4
8	2.2	3.6	2.6	2.0	1.7	2.5	5.1	26	25	3.8	2.4	3.0
9	2.2	3.2	2.5	2.0	1.9	2.4	4.3	24	24	5.8	2.6	2.1
10	2.2	3.2	2.4	2.0	1.9	2.5	4.4	22	21	6.0	2.6	1.7
11	2.2	3.0	2.5	2.0	1.9	2.4	5.1	20	19	4.4	3.8	1.9
12	2.2	3.0	2.5	1.9	1.9	2.6	4.9	18	15	3.8	3.6	4.0
13	2.2	3.9	2.5	1.7	1.9	2.6	3.4	18	13	3.5	2.5	2.9
14	2.5	3.3	2.5	1.7	1.9	2.6	3.8	17	12	4.8	2.4	2.4
15	3.6	1.7	2.6	1.7	2.1	2.8	4.2	18	11	4.1	2.2	2.1
16	2.9	2.6	2.8	2.0	2.1	2.9	4.4	20	10	3.9	2.2	1.9
17	3.3	2.2	2.9	2.0	2.2	2.6	4.4	20	9.2	5.8	2.4	1.9
18	2.9	2.4	3.2	2.0	2.4	2.5	6.3	27	8.6	3.9	2.5	2.1
19	3.3	2.5	3.0	1.7	2.5	2.6	7.6	39	8.0	3.3	2.5	1.6
20	3.6	2.5	2.9	1.6	2.6	2.6	7.0	45	7.4	2.8	2.0	1.5
21	3.8	2.4	2.9	1.6	2.4	2.6	9.9	43	6.9	2.5	2.0	1.4
22	3.6	2.4	2.6	1.7	2.4	2.5	9.7	38	6.7	2.4	2.4	1.5
23	3.2	2.2	2.6	1.7	2.8	3.0	12	34	6.1	2.4	2.4	3.2
24	2.6	2.5	2.6	1.7	2.5	3.3	13	31	5.2	2.4	1.9	6.1
25	2.8	2.6	2.6	1.6	2.5	3.2	17	30	4.9	2.5	1.7	3.9
26	3.0	2.6	2.5	1.5	2.4	3.6	18	29	4.4	2.8	1.9	2.5
27	3.2	2.5	2.5	1.4	2.2	3.6	20	29	4.1	3.3	1.7	2.1
28	3.5	2.4	2.6	1.5	2.1	3.0	19	32	3.9	2.5	1.6	2.2
29	3.2	2.5	2.6	1.6	---	3.2	22	29	5.2	2.5	1.6	2.1
30	4.1	2.5	2.6	1.6	---	3.3	24	30	6.2	2.2	1.5	2.1
31	4.4	---	2.6	1.7	---	2.9	---	30	---	2.5	1.7	---
TOTAL	89.1	90.1	81.0	58.2	58.7	84.0	258.4	859	431.8	121.1	71.1	70.0
MEAN	2.87	3.00	2.61	1.88	2.10	2.71	8.61	27.7	14.4	3.91	2.29	2.33
MAX	4.4	4.4	3.2	2.6	2.8	3.6	24	45	35	12	3.8	6.1
MIN	2.2	1.7	2.4	1.4	1.6	2.1	3.4	17	3.9	2.2	1.5	1.4
AC-FT	177	179	161	115	116	167	513	1700	856	240	141	139

CAL YR 1980 TOTAL 2857.5 MEAN 7.81 MAX 48 MIN 1.6 AC-FT 5670
WTR YR 1981 TOTAL 2272.5 MEAN 6.23 MAX 45 MIN 1.4 AC-FT 4510

09346000 NAVAJO RIVER AT EDITH, CO

LOCATION.--Lat 37°00'10", long 106°54'25", in NW¼NW¼ sec.24, T.32 N., R.1 W., Archuleta County, Hydrologic Unit 14080101, on right bank 290 ft (88 m) downstream from highway bridge, 0.2 mi (0.3 km) southeast of Edith, 0.5 mi (0.8 km) upstream from Colorado-New Mexico State line, and 1.3 mi (2.1 km) upstream from Coyote Creek.

DRAINAGE AREA.--172 mi² (445 km²).

PERIOD OF RECORD.--September 1912 to current year. Monthly or yearly discharge only for some periods, published in WSP 1313.

REVISED RECORDS.--WSP 1243: 1943, 1945. WSP 1633: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 7,033.00 ft (2,143.658 m), National Geodetic Vertical Datum of 1929 (levels by U.S. Bureau of Reclamation). Prior to Jan. 1, 1929, nonrecording gage at site 240 ft (73 m) upstream at different datum. June 2, 1935, to June 27, 1941, water-stage recorder at sites 200 and 240 ft (61 and 73 m) upstream at datum 2.0 ft (0.61 m) higher. June 28, 1941, to June 20, 1961, at site 50 ft (15 m) downstream at same datum.

REMARKS.--Records good except those for winter period, which are fair. Diversions for irrigation of about 1,700 acres (6.88 km²) above station. High-water diversions above station into Heron Reservoir through Azotea tunnel began in March 1971. Several observations of specific conductance and water temperature were obtained and are published elsewhere in this report.

AVERAGE DISCHARGE.--58 years (water years 1913-70), 155 ft³/s (4.390 m³/s), 112,300 acre-ft/yr (138 hm³/yr), prior to diversions through Azotea tunnel; 11 years (water years 1971-81), 64.2 ft³/s (1.818 m³/s), 46,510 acre-ft/yr (57.3 hm³/yr), subsequent to diversion through Azotea tunnel.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,840 ft³/s (80.4 m³/s) Apr. 23, 1942, gage height, 6.55 ft (1.996 m), from rating curve extended above 1,100 ft³/s (31 m³/s); minimum daily, 8.0 ft³/s (0.23 m³/s) Sept. 25, 1953, Aug. 7, 1977.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Oct. 5, 1911, exceeded all other observed floods at this location.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 164 ft³/s (4.64 m³/s) May 17, gage height, 3.49 ft (1.064 m); minimum daily, 22 ft³/s (0.62 m³/s) Aug. 6, 7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	42	58	41	44	24	39	46	92	94	72	54	46
2	42	57	38	44	26	38	57	104	79	66	44	41
3	41	55	40	44	32	39	55	108	86	63	41	38
4	41	52	42	41	33	36	47	86	96	63	36	38
5	41	50	42	38	29	35	39	98	92	62	26	46
6	41	50	42	34	29	36	50	94	86	60	22	63
7	38	50	42	36	29	32	60	92	82	60	22	49
8	32	49	36	36	29	30	50	88	79	55	38	54
9	25	47	40	36	30	30	47	88	68	70	55	54
10	28	47	32	36	30	33	49	84	54	62	52	46
11	29	46	38	38	25	35	46	81	44	62	75	49
12	33	46	40	38	30	33	52	86	49	58	79	79
13	39	57	46	36	32	35	50	90	54	60	63	62
14	47	55	40	34	34	36	55	96	55	68	54	58
15	65	44	44	33	36	36	55	104	55	66	49	54
16	57	44	44	36	38	38	50	133	58	63	46	50
17	57	42	46	38	38	38	50	139	60	62	46	62
18	55	42	48	34	38	33	52	123	55	57	52	68
19	54	42	49	32	39	36	52	136	63	57	63	60
20	54	41	46	32	39	39	50	136	62	58	54	54
21	54	41	42	30	36	38	49	130	60	58	47	50
22	52	39	44	35	29	38	47	125	54	55	49	49
23	49	41	46	36	32	44	49	118	54	57	49	64
24	46	42	44	36	35	47	47	111	47	54	36	117
25	46	38	42	30	35	44	47	104	46	54	30	82
26	49	40	46	30	36	50	46	104	52	58	33	72
27	50	36	46	28	33	54	41	102	52	60	30	63
28	47	39	46	35	33	47	38	102	55	47	39	60
29	47	41	46	35	---	44	36	108	60	38	39	66
30	52	42	44	29	---	49	44	111	68	41	30	70
31	55	---	44	33	---	41	---	113	---	46	33	---
TOTAL	1408	1373	1326	1097	909	1203	1456	3286	1919	1812	1386	1764
MEAN	45.4	45.8	42.8	35.4	32.5	38.8	48.5	106	64.0	58.5	44.7	58.8
MAX	65	58	49	44	39	54	60	139	96	72	79	117
MIN	25	36	32	28	24	30	36	81	44	38	22	38
AC-FT	2790	2720	2630	2180	1800	2390	2890	6520	3810	3590	2750	3500

CAL YR 1980 TOTAL 31667 MEAN 86.5 MAX 433 MIN 18 AC-FT 62810
WTR YR 1981 TOTAL 18939 MEAN 51.9 MAX 139 MIN 22 AC-FT 37570

09346400 SAN JUAN RIVER NEAR CARRACAS, CO

LOCATION.--Lat 37°00'49", long 107°18'42", in SE¼SW¼ sec.17, T.32 N., R.4 W., Archuleta County, Hydrologic Unit 14080101, on right bank just upstream from flow line of Navajo Reservoir, 3 mi (5 km) northwest of Carracas, 7.2 mi (11.6 km) upstream from Piedra River, and at mile 332.8 (535.5 km).

DRAINAGE AREA.--1,230 mi² (3,190 km²), approximately.

PERIOD OF RECORD.--October 1961 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 6,090 ft (1,856 m), from river-profile map.

REMARKS.--Records good except those for winter period, which are fair. Diversions for irrigation of about 11,000 acres (45 km²) above station. Highwater diversions above station into Rio Grande basin through Azotea tunnel (station 08284160) began in March 1971. Several observations of specific conductance and water temperature were obtained and are published elsewhere in this report.

AVERAGE DISCHARGE.--9 years (water years 1962-70), 632 ft³/s (17.90 m³/s), 457,900 acre-ft/yr (565 hm³/yr), prior to completion of Azotea tunnel. 11 years (water years 1971-81), 552 ft³/s (15.63 m³/s), 399,900 acre-ft/yr (493 hm³/yr) since completion of Azotea tunnel.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,730 ft³/s (276 m³/s) Sept. 6, 1970, gage height, 8.34 ft (2.542 m), from rating curve extended above 6,000 ft³/s (170 m³/s), on basis of slope-area measurement of peak flow; minimum daily, about 5 ft³/s (0.1 m³/s) Dec. 10, 1961, result of freezeup.

EXTREMES OUTSIDE PERIOD OF RECORD.--Major floods occurred Sept. 5 or 6, 1909; Oct. 5, 1911; June 29, 1927.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,940 ft3/s (54.9 m³/s) at 1530 May 3, gage height, 4.34 ft (1.323 m); no peak above base of 2,500 ft³/s (71 m³/s); minimum daily, 85 ft³/s (2.41 m³/s) Feb. 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	138	214	165	138	110	128	142	1070	1230	388	264	173
2	135	211	142	140	85	138	159	1380	1210	453	256	204
3	130	204	148	138	100	151	179	1630	1280	388	242	182
4	128	195	148	135	110	140	179	1480	1250	312	211	156
5	125	192	156	140	110	130	156	1220	1120	283	182	153
6	122	195	153	128	110	132	140	1040	1300	256	165	291
7	120	195	162	108	110	140	167	830	1480	235	159	287
8	115	192	138	118	100	122	185	682	1510	238	207	338
9	111	188	128	120	110	122	179	607	1490	287	204	312
10	104	179	142	120	110	125	207	564	1370	320	275	228
11	104	176	111	130	100	138	264	547	1230	455	296	224
12	106	173	128	132	115	142	304	507	1110	498	490	264
13	113	179	159	130	120	140	304	480	969	296	351	256
14	122	211	156	110	120	140	300	474	852	360	271	245
15	179	192	142	100	125	151	308	496	708	312	231	228
16	249	165	130	110	130	148	312	657	613	312	224	245
17	201	165	148	120	135	148	325	754	553	534	214	218
18	192	148	159	120	148	132	427	676	524	485	235	218
19	185	138	170	110	151	120	453	689	480	402	224	214
20	195	145	159	100	156	130	485	728	474	351	218	195
21	201	142	145	95	156	142	448	721	448	304	188	182
22	204	140	148	95	120	138	485	689	[illegible]22	268	182	173
23	195	138	156	100	108	132	507	650	[illegible]	253	204	248
24	179	140	138	110	118	151	582	637	356	[illegible]	192	400
25	167	140	120	110	122	165	650	644	316	374	165	304
26	167	130	132	100	120	165	695	676	304	291	159	242
27	182	130	148	100	132	185	747	714	300	384	179	224
28	192	122	153	90	113	182	754	1070	287	369	148	201
29	179	132	156	110	---	162	802	1170	329	296	195	192
30	170	153	140	110	---	153	890	1170	417	264	159	198
31	195	---	132	90	---	162	---	1270	---	245	162	---
TOTAL	4905	5024	4512	3557	3344	4454	11735	25922	24320	10500	6852	6995
MEAN	158	167	146	115	119	144	391	836	811	339	221	233
MAX	249	214	170	140	156	185	890	1630	1510	534	490	400
MIN	104	122	111	90	85	120	140	474	287	235	148	153
AC-FT	9730	9970	8950	7060	6630	8830	23280	51420	48240	20830	13590	13870

CAL YR 1980 TOTAL 272132 MEAN 744 MAX 4310 MIN 90 AC-FT 539800
WTR YR 1981 TOTAL 112120 MEAN 307 MAX 1630 MIN 85 AC-FT 222400

09347205 MIDDLE FORK PIEDRA RIVER NEAR DYKE, CO

LOCATION.--Lat 37°27'10", long 107°10'33", in NE¼SW¼ sec.10, T.37 N., R.3 W., Hinsdale County, Hydrologic Unit 14080102, on left bank 1.8 mi (2.9 km) northeast of Piedra Guard Station, 2 mi (3.2 km) downstream from headgate of Toner-Taylor ditch, and 15 mi (24 km) northwest of Pagosa Springs.

DRAINAGE AREA.--34.1 mi² (88.3 km²).

PERIOD OF RECORD.--October 1977 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 7,860 ft (2,400 m). (Record is not equivalent to record for station 09347200.)

REMARKS.--Records good except those for winter period, which are poor. There is one small diversion above station for irrigation of a few acres of hay meadow below the station. Several observations of specific conductance and water temperature were obtained and are published elsewhere in this report.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 700 ft³/s (19.8 m³/s) May 26, 1978, gage height, 3.63 ft (1.106 m); minimum daily, 2.0 ft³/s (0.057 m³/s) Oct. 17-20, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 268 ft³/s (7.59 m³/s) at 2030 June 7, gage height, 2.78 ft (0.847 m); maximum gage height, 3.20 ft (0.975 m) Jan. 25 (backwater from ice); minimum daily discharge, 4.2 ft³/s (0.12 m³/s) Feb. 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	13	8.5	8.5	4.8	6.5	11	131	126	28	38	17
2	14	12	9.0	8.0	5.0	6.5	13	128	126	27	36	14
3	14	12	9.0	8.0	6.0	6.5	12	204	142	19	30	12
4	12	12	9.0	8.0	6.0	6.5	12	142	124	14	27	12
5	12	12	9.0	8.3	6.0	6.5	10	117	135	12	24	14
6	12	12	9.0	6.5	6.0	6.5	13	95	178	9.9	22	15
7	12	12	8.5	7.0	5.5	6.0	16	80	204	17	20	14
8	11	11	7.5	7.5	5.5	6.5	16	72	197	27	18	14
9	10	11	9.0	7.0	6.0	6.5	16	60	208	30	21	14
10	9.5	11	6.0	7.0	5.0	7.0	22	56	184	55	21	14
11	10	10	8.0	7.0	4.2	6.5	28	56	172	46	53	22
12	9.5	10	9.5	7.5	6.0	6.5	28	52	148	44	36	26
13	8.7	11	9.5	6.5	6.0	7.0	26	48	124	54	28	24
14	9.5	11	8.5	6.0	6.5	7.5	26	45	101	46	26	22
15	12	9.1	9.0	6.5	6.5	7.0	29	52	82	49	23	21
16	9.9	9.5	9.0	7.0	7.0	8.3	30	49	72	43	22	20
17	10	9.5	9.5	7.5	7.0	7.9	37	45	63	44	22	20
18	11	9.5	10	7.0	7.5	7.2	44	43	56	41	21	18
19	12	9.0	10	6.0	7.5	7.5	45	49	49	36	19	16
20	15	9.0	9.5	5.5	7.0	8.3	42	53	47	31	19	15
21	14	8.5	9.0	6.0	6.0	7.5	42	49	44	22	18	11
22	14	8.5	9.0	6.5	5.5	7.2	48	44	40	20	18	11
23	13	8.5	9.5	6.5	6.5	8.7	55	44	36	19	17	16
24	11	9.0	7.5	6.5	7.0	9.9	68	44	33	47	16	18
25	11	9.0	7.5	6.0	7.0	10	75	48	28	26	16	17
26	12	8.5	8.5	6.0	6.5	11	80	62	27	56	15	16
27	12	8.0	9.5	5.5	6.0	11	80	80	25	63	18	15
28	12	8.5	9.0	7.0	6.5	9.9	80	111	24	50	18	14
29	12	9.0	8.7	7.0	---	9.5	91	115	24	42	16	14
30	12	9.0	8.0	5.5	---	11	113	115	23	38	16	14
31	13	---	8.5	6.0	---	9.1	---	126	---	36	20	---
TOTAL	365.1	302.1	271.7	210.8	172.0	243.5	1208	2415	2842	1091.9	714	490
MEAN	11.8	10.1	8.76	6.80	6.14	7.85	40.3	77.9	94.7	35.2	23.0	16.3
MAX	15	13	10	8.5	7.5	11	113	204	208	63	53	26
MIN	8.7	8.0	6.0	5.5	4.2	6.0	10	43	23	9.9	15	11
AC-FT	724	599	539	418	341	483	2400	4790	5640	2170	1420	972

CAL YR 1980 TOTAL 21366.0 MEAN 58.4 MAX 465 MIN 3.4 AC-FT 42380
WTR YR 1981 TOTAL 10326.1 MEAN 28.3 MAX 208 MIN 4.2 AC-FT 20480

NOTE.--NO GAGE-HEIGHT RECORD FEB. 12 TO MAR. 15.

09349800 PIEDRA RIVER NEAR ARBOLES, CO

LOCATION.--Lat 37°05'18", long 107°23'50", in NE¼SW¼ sec.21, T.33 N., R.5 W., Archuleta County, Hydrologic Unit 14080102, on left bank 3 mi (5 km) downstream from Ignacio Creek, 5.2 mi (8.4 km) northeast of Arboles Post Office, and 8 mi (13 km) upstream from mouth.

DRAINAGE AREA.--629 mi² (1,629 km²).

PERIOD OF RECORD.--August 1962 to current year. Gage operated 1895-99 and 1910-27 at site 7.5 mi (12.1 km) downstream at altitude 6,000 ft (1,830 m). Low-flow records probably not equivalent.

GAGE.--Water-stage recorder. Datum of gage is 6,147.52 ft (1,873.764 m) Colorado State Highway Department bench mark.

REMARKS.--Records good. Diversions for irrigation of about 2,800 acres (11 km²) above station. Several observations of specific conductance and water temperature were obtained and are published elsewhere in this report.

AVERAGE DISCHARGE.--19 years, 366 ft³/s (10.37 m³/s), 265,200 acre-ft/yr (327 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,370 ft³/s (237 m³/s) Sept. 6, 1970, gage height, 6.38 ft (1.945 m) recorded, 7.55 ft (2.301 m) from floodmarks, from rating curve extended above 4,400 ft³/s (125 m³/s), on basis of slope-area measurement of peak flow; minimum, 11 ft³/s (0.31 m³/s) Dec. 9, 1963, Oct. 1, 1966.

EXTREMES OUTSIDE PERIOD OF RECORD.--Major floods occurred Sept. 5 or 6, 1909, and Oct. 5, 1911.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,430 ft³/s (40.5 m³/s) at 1130 May 3, gage height, 3.15 ft (0.960 m), only peak above base of 1,500 ft³/s (42 m³/s); minimum daily, 46 ft³/s (1.30 m³/s) Feb. 1, 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	94	101	82	65	46	63	92	900	726	194	180	125
2	88	101	76	67	46	70	128	908	740	213	180	115
3	88	101	72	65	50	72	135	1280	812	170	174	106
4	86	99	76	65	55	67	110	1210	756	140	149	101
5	80	99	74	63	52	65	90	956	712	120	130	122
6	78	99	78	60	52	65	97	804	868	108	113	143
7	76	99	75	56	51	63	128	663	956	101	110	140
8	76	97	74	63	51	59	138	564	1010	110	110	122
9	74	94	67	60	49	59	140	480	1020	170	110	135
10	72	94	65	59	48	59	180	435	940	368	135	132
11	70	92	63	61	49	68	229	420	852	375	185	146
12	70	90	74	59	51	70	265	385	740	365	365	158
13	70	92	78	61	51	68	241	360	621	445	285	194
14	70	97	70	58	49	70	241	326	516	375	245	174
15	97	92	70	58	51	72	308	350	430	390	202	164
16	110	78	72	59	52	70	303	390	365	385	180	158
17	99	80	76	58	56	70	316	385	316	321	184	132
18	97	72	74	56	58	68	400	350	273	298	170	118
19	92	70	76	56	67	63	455	365	249	257	155	110
20	94	70	78	54	82	67	440	375	237	213	146	104
21	99	67	74	54	76	70	415	390	225	174	132	99
22	99	65	70	54	67	65	455	360	213	152	140	92
23	99	70	72	56	58	67	492	340	188	146	161	88
24	90	75	65	54	63	72	576	345	174	177	149	108
25	86	72	61	52	67	86	663	370	161	202	130	120
26	88	72	65	51	67	94	691	420	149	191	113	115
27	94	65	68	48	63	115	719	460	140	345	118	108
28	101	67	70	49	58	97	719	642	130	285	130	101
29	92	74	68	48	---	80	719	684	128	225	130	97
30	90	76	68	48	---	90	844	670	149	194	132	97
31	94	---	65	49	---	86	---	726	---	174	130	---
TOTAL	2713	2520	2216	1766	1585	2250	10729	17313	14796	7383	4973	3724
MEAN	87.5	84.0	71.5	57.0	56.6	72.6	358	558	493	238	160	124
MAX	110	101	82	67	82	115	844	1280	1020	445	365	194
MIN	70	65	61	48	46	59	90	326	128	101	110	88
AC-FT	5380	5000	4400	3500	3140	4460	21280	34340	29350	14640	9860	7390

CAL YR 1980 TOTAL 214064 MEAN 585 MAX 4000 MIN 36 AC-FT 424600
WTR YR 1981 TOTAL 71968 MEAN 197 MAX 1280 MIN 46 AC-FT 142700

09352900 VALLECITO CREEK NEAR BAYFIELD, CO
(Hydrologic bench-mark station)

LOCATION.--Lat 37°28'39", long 107°32'35", in NE¼NW¼ sec.16, T.37 N., R.6 W., La Plata County, Hydrologic Unit 14080101, on right bank 60 ft (18 m) upstream from Fall Creek, 0.8 mi (1.3 km) downstream from Bear Creek, 6.7 mi (10.8 km) north of Vallecito Dam, and 18 mi (29 km) north of Bayfield.

DRAINAGE AREA.--72.1 mi^2 (186.7 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1962 to current year.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 7,906.80 ft (2,409.773 m), National Geodetic Vertical Datum of 1929.

REMARKS.--Records good except those for winter period, which are poor. No diversion above station.

AVERAGE DISCHARGE.--19 years, 139 ft^3/s (93.936 m^3/s), 100,700 acre-ft/yr (124 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,050 ft^3/s (200 m^3/s) Sept. 6, 1970, gage height, 5.51 ft (1.679 m) from water-stage recorder, 6.76 ft (2.060 m) from floodmarks, from rating curve extended above 1,400 ft^3/s (40 m^3/s), on basis of slope-area measurement of peak flow; minimum daily, 6.7 ft^3/s (0.19 m^3/s) Dec. 28, 1976.

EXTREMES OUTSIDE PERIOD OF RECORD.--Major floods occurred in October 1911 and June 1927.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,150 ft^3/s (32.6 m^3/s) at 2130 June 7, gage height, 3.00 ft (0.914 m), only peak above base of 1,000 ft^3/s (28 m^3/s); minimum daily, 11 ft^3/s (0.31 m^3/s) Feb. 22.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	53	33	24	20	15	14	17	480	496	168	122	82
2	51	32	22	20	15	13	20	459	568	180	102	72
3	50	32	22	20	15	14	20	640	560	144	94	68
4	48	32	22	19	15	14	19	424	404	124	86	71
5	44	32	24	19	15	14	20	362	544	114	79	117
6	43	33	24	19	15	15	22	296	720	112	72	144
7	40	33	24	18	16	13	28	240	744	112	66	144
8	33	32	22	18	16	15	28	212	768	112	63	124
9	33	32	20	18	15	15	31	188	720	130	63	117
10	32	31	20	18	14	15	50	180	640	216	68	112
11	32	30	20	18	13	14	68	184	592	228	176	114
12	31	31	20	18	14	14	76	160	512	445	212	150
13	31	32	20	18	14	14	76	153	417	504	157	172
14	33	32	20	15	14	15	82	153	338	338	127	168
15	40	24	20	16	14	14	76	180	260	392	112	144
16	39	28	20	18	14	15	88	168	228	350	112	127
17	40	28	20	17	14	15	107	153	232	265	110	114
18	41	27	20	15	14	14	124	150	232	220	100	104
19	42	28	20	15	14	14	124	172	232	180	96	98
20	45	27	20	15	14	15	122	188	240	147	98	90
21	44	26	20	15	13	15	120	176	232	124	94	82
22	43	24	20	16	11	14	176	172	228	114	107	77
23	42	25	20	16	12	16	164	192	208	110	96	77
24	38	24	19	16	12	16	212	240	180	114	86	94
25	39	21	19	16	12	16	255	290	168	110	82	86
26	41	23	19	16	13	18	270	350	160	160	74	82
27	43	22	20	15	12	17	290	445	153	160	76	77
28	41	22	19	16	14	17	320	632	150	130	74	72
29	39	24	19	16	---	17	386	576	147	112	69	68
30	37	24	18	15	---	19	445	504	144	102	68	66
31	35	---	19	15	---	16	---	536	---	96	88	---
TOTAL	1243	844	636	526	389	467	3836	9255	11217	5813	3029	3113
MEAN	40.1	28.1	20.5	17.0	13.9	15.1	128	299	374	188	97.7	104
MAX	53	33	24	20	16	19	445	640	768	504	212	172
MIN	31	21	18	15	11	13	17	150	144	96	63	66
AC-FT	2470	1670	1260	1040	772	926	7610	18360	22250	11530	6010	6170

CAL YR 1980 TOTAL 62817 MEAN 172 MAX 1240 MIN 12 AC-FT 124600
WTR YR 1981 TOTAL 40368 MEAN 111 MAX 768 MIN 11 AC-FT 80070

NOTE.--NO GAGE-HEIGHT RECORD NOV. 28 TO DEC. 28.

09352900 VALLECITO CREEK NEAR BAYFIELD, CO--Continued
(Hydrologic Bench-Mark Station)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Chemical analyses: October 1963 to September 1968; October 1969 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: November 1962 to current year.

INSTRUMENTATION.--Water-temperature recorder since November 1962.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum, 20.0°C July 10, 1974; minimum, freezing point on many days during winter months each year.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum, 18.0°C July 11; minimum, freezing point on many days during winter months.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	COLI-FORM, TOTAL, IMMED. (COLS. PER 100 ML)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./100 ML)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
OCT										
08...	1030	32	95	--	7.5	8.0	8.7	<1	K1	K7
NOV										
05...	1020	31	80	74	8.0	3.0	9.9	<1	K8	31
25...	0930	15	70	82	8.1	.0	10.7	K5	<1	<1
DEC										
29...	0845	18	110	88	7.7	.0	10.7	<1	K1	<1
JAN										
28...	0900	16	80	94	7.8	.0	10.7	K1	<1	<1
FEB										
24...	0915	9.8	80	86	7.8	.0	10.7	<1	<1	K3
MAR										
31...	0845	8.2	120	91	7.8	.0	10.8	K1	<1	<1
APR										
28...	1015	272	85	63	7.2	3.0	9.9	K1	<1	K12
MAY										
27...	0845	331	60	90	7.4	5.0	9.6	K8	<1	K5
JUN										
30...	0815	138	70	47	7.0	9.0	8.5	K13	K3	K3
JUL										
28...	0840	134	68	59	7.2	7.0	9.0	K14	K7	K18
AUG										
26...	0850	78	72	69	7.4	9.5	8.4	23	K1	44

DATE	HARD-NESS (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)
OCT										
08...	51	12	5.2	1.3	.1	.5	32	26	2.1	.2
NOV										
05...	35	11	1.9	1.1	.1	.8	24	15	1.1	.2
25...	36	11	2.1	1.1	.1	.6	30	8.5	.3	.3
DEC										
29...	35	11	2.0	1.1	.1	.7	24	6.9	2.1	.2
JAN										
28...	39	12	2.3	2.0	.1	.5	26	19	1.1	.2
FEB										
24...	45	14	2.4	1.6	.1	.6	28	15	1.8	.3
MAR										
31...	43	13	2.5	1.8	.1	.8	24	36	1.0	.3
APR										
28...	29	8.5	1.9	1.3	.1	.7	27	2.6	.3	.2
MAY										
27...	25	7.3	1.6	.8	.1	.5	19	5.0	.3	.1
JUN										
30...	25	7.0	1.8	1.6	.1	.4	24	1.7	.8	.2
JUL										
28...	26	7.7	1.6	.8	.1	.4	24	3.0	.3	.2
AUG										
26...	37	9.8	3.0	2.7	.2	.6	30	4.0	<.1	.2

09352900 VALLECITO CREEK NEAR BAYFIELD, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)
OCT									
08...	3.7	85	72	.12	7.3	--	.36	.000	.000
NOV									
05...	3.6	58	50	.08	4.9	.28	.14	.020	--
25...	3.9	55	49	.07	2.0	1.0	.70	.010	--
DEC									
29...	4.1	66	66	.09	3.2	.31	.30	.010	--
JAN									
28...	4.3	68	58	.09	2.9	.25	.28	.020	--
FEB									
24...	4.2	67	57	.09	1.7	.70	.11	.000	--
MAR									
31...	4.3	103	75	.14	2.2	.11	.11	.000	--
APR									
28...	3.7	66	38	.09	33.9	.13	.15	.010	--
MAY									
27...	3.3	37	31	.05	33.1	.25	.27	.030	--
JUN									
30...	2.9	30	30	.04	11.2	.07	.00	.010	--
JUL									
28...	3.3	35	32	.05	12.1	.09	.09	.000	--
AUG									
28...	3.6	36	--	.05	7.3	<.09	<.09	.010	--

DATE	TIME	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, TOTAL RECOV- ERABLE (UG/L AS BA)	BARIUM, DIS- SOLVED (UG/L AS BA)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COBALT, DIS- SOLVED (UG/L AS CO)
OCT											
08...	1030	1	0	0	20	<1	0	<1	0	0	<3
MAY											
27...	0845	2	1	0	0	<1	1	<1	0	0	<3

DATE	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	LITHIUM DIS- SOLVED (UG/L AS LI)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)
OCT										
08...	3	<10	80	11	3	<10	<4	10	4	.0
MAY										
27...	4	<10	70	30	0	<10	<4	10	17	.1

DATE	MERCURY DIS- SOLVED (UG/L AS HG)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	SELE- NIUM, TOTAL (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG)	SILVER, DIS- SOLVED (UG/L AS AG)	STRON- TIUM, DIS- SOLVED (UG/L AS SR)	VANA- DIUM, DIS- SOLVED (UG/L AS V)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)
OCT										
08...	.0	<10	0	0	0	0	35	3.0	20	<3
MAY										
27...	.0	<10	0	0	0	0	20	<6.0	10	10

09352900 VALLECITO CREEK NEAR BAYFIELD, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	GROSS ALPHA, DISSOLVED (PCI/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (PCI/L AS U-NAT)	GROSS ALPHA, DISSOLVED (UG/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT)	GROSS BETA, DISSOLVED (PCI/L AS CS-137)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137)	GROSS BETA, DISSOLVED (PCI/L AS SR/YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/YT-90)	RADIUM 226, DISSOLVED, RADON METHOD (PCI/L)	URANIUM DISSOLVED, EXTRACTION (UG/L)
OCT											
08...	1030	.7	<.3	1.1	<.4	1.3	<.4	1.2	<.4	.06	.37
MAY											
27...	0845	.5	.3	<.8	<.4	1.8	.8	1.7	.8	.04	.23

DATE	TIME	PCB, TOTAL (UG/L)	ALDRIN, TOTAL (UG/L)	CHLORDANE, TOTAL (UG/L)	DDD, TOTAL (UG/L)	DDE, TOTAL (UG/L)	DDT, TOTAL (UG/L)	DIAZINON, TOTAL (UG/L)	DIELDRIN TOTAL (UG/L)
OCT									
08...	1030	.00	.00	.00	.00	.00	.00	.00	.00

DATE	ENDOSULFAN, TOTAL (UG/L)	ENDRIN, TOTAL (UG/L)	ETHION, TOTAL (UG/L)	HEPTACHLOR, TOTAL (UG/L)	HEPTACHLOR EPOXIDE TOTAL (UG/L)	LINDANE TOTAL (UG/L)	MALATHION, TOTAL (UG/L)	METHOXYCHLOR, TOTAL (UG/L)	METHYL PARATHION, TOTAL (UG/L)
OCT									
08...	.00	.00	.00	.00	.00	.00	.00	.00	.00

DATE	METHYL TRITHION, TOTAL (UG/L)	MIREX, TOTAL (UG/L)	PARATHION, TOTAL (UG/L)	PERTHANE TOTAL (UG/L)	TOXAPHENE, TOTAL (UG/L)	TOTAL TRITHION (UG/L)	2,4-D, TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)
OCT									
08...	.00	.00	.00	.00	.00	.00	.01	.00	.00

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY)
OCT				
08...	1030	32	2	.17
NOV				
05...	1020	31	1	.09
25...	0930	15	3	.12
DEC				
29...	0845	18	2	.10
JAN				
28...	0900	16	6	.26
FEB				
24...	0915	9.8	6	.16
MAR				
31...	0845	8.2	5	.11
APR				
28...	1015	272	3	2.2
MAY				
27...	0845	331	2	1.8
JUL				
28...	0840	134	10	3.6
AUG				
26...	0850	76	7	1.4

09352900 VALLECITO CREEK NEAR BAYFIELD, CO--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	11.0	8.0	2.0	2.0	.0	.0	.0	.0	.0	.0	.0	.0
2	10.0	8.0	2.0	2.0	.0	.0	.0	.0	.0	.0	.0	.0
3	10.0	8.0	2.0	2.0	.0	.0	.0	.0	.0	.0	.0	.0
4	9.0	7.0	3.0	2.0	.0	.0	.0	.0	.0	.0	.0	.0
5	9.0	8.0	3.0	2.0	.0	.0	.0	.0	.0	.0	.0	.0
6	9.0	8.0	2.0	2.0	.0	.0	.0	.0	.0	.0	.0	.0
7	9.0	8.0	2.0	2.0	.0	.0	.0	.0	.0	.0	.0	.0
8	10.0	7.0	2.0	2.0	.0	.0	.0	.0	.0	.0	.0	.0
9	9.0	8.0	2.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0
10	9.0	8.0	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
11	9.0	7.0	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	8.0	7.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13	8.0	7.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
14	8.0	8.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
15	8.0	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
16	3.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17	3.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	.0
18	3.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	.0
19	3.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	1.0
20	3.0	2.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	1.0
21	3.0	2.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	1.0
22	3.0	2.0	.0	.0	.0	.0	.0	.0	.0	.0	2.0	1.0
23	3.0	2.0	.0	.0	.0	.0	.0	.0	.0	.0	2.0	1.0
24	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.0	1.0
25	2.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	2.0	1.0
26	2.0	2.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	1.0
27	2.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	1.0
28	1.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	.0
29	1.0	.0	.0	.0	.0	.0	.0	.0	---	---	1.0	.0
30	1.0	.0	.0	.0	.0	.0	.0	.0	---	---	1.0	1.0
31	2.0	1.0	---	---	.0	.0	.0	.0	---	---	1.0	.0

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	2.0	1.0	8.0	4.0	10.0	5.0	13.0	11.0	13.0	11.0	12.0	8.0
2	2.0	2.0	7.0	4.0	9.0	5.0	14.0	10.0	13.0	11.0	12.0	8.0
3	2.0	2.0	6.0	4.0	7.0	6.0	14.0	9.0	15.0	11.0	12.0	9.0
4	2.0	1.0	7.0	3.0	11.0	4.0	15.0	9.0	15.0	11.0	12.0	9.0
5	2.0	1.0	5.0	3.0	11.0	7.0	16.0	9.0	15.0	10.0	10.0	9.0
6	3.0	1.0	6.0	4.0	11.0	7.0	17.0	11.0	16.0	11.0	9.0	7.0
7	3.0	3.0	7.0	4.0	12.0	7.0	16.0	12.0	15.0	11.0	10.0	7.0
8	4.0	3.0	6.0	3.0	12.0	7.0	13.0	12.0	15.0	12.0	10.0	7.0
9	5.0	3.0	6.0	2.0	13.0	7.0	13.0	11.0	14.0	11.0	9.0	7.0
10	5.0	3.0	8.0	3.0	13.0	7.0	14.0	11.0	14.0	11.0	8.0	7.0
11	5.0	3.0	6.0	3.0	13.0	7.0	18.0	12.0	11.0	10.0	8.0	6.0
12	3.0	2.0	5.0	4.0	13.0	7.0	15.0	11.0	10.0	8.0	8.0	7.0
13	4.0	3.0	9.0	4.0	12.0	7.0	13.0	10.0	10.0	9.0	7.0	5.0
14	4.0	3.0	9.0	4.0	10.0	6.0	12.0	10.0	12.0	8.0	7.0	5.0
15	3.0	3.0	8.0	6.0	10.0	4.0	12.0	9.0	13.0	9.0	7.0	5.0
16	6.0	3.0	6.0	3.0	11.0	4.0	13.0	9.0	12.0	8.0	7.0	5.0
17	7.0	3.0	6.0	3.0	13.0	5.0	13.0	11.0	10.0	8.0	9.0	5.0
18	5.0	3.0	9.0	4.0	12.0	7.0	13.0	9.0	11.0	8.0	9.0	5.0
19	6.0	3.0	9.0	5.0	14.0	7.0	14.0	9.0	11.0	8.0	8.0	5.0
20	6.0	3.0	9.0	6.0	15.0	8.0	13.0	8.0	13.0	8.0	8.0	5.0
21	7.0	3.0	6.0	4.0	16.0	9.0	14.0	9.0	13.0	10.0	8.0	5.0
22	7.0	3.0	8.0	4.0	16.0	9.0	14.0	10.0	11.0	10.0	8.0	6.0
23	7.0	3.0	8.0	4.0	12.0	10.0	13.0	11.0	12.0	8.0	7.0	6.0
24	7.0	3.0	7.0	5.0	15.0	10.0	13.0	11.0	12.0	9.0	7.0	6.0
25	6.0	3.0	7.0	4.0	15.0	12.0	13.0	10.0	12.0	8.0	7.0	6.0
26	7.0	3.0	6.0	5.0	15.0	11.0	13.0	11.0	12.0	9.0	8.0	5.0
27	7.0	3.0	10.0	5.0	17.0	12.0	13.0	9.0	12.0	10.0	7.0	5.0
28	8.0	3.0	8.0	5.0	17.0	13.0	14.0	7.0	11.0	9.0	7.0	5.0
29	8.0	3.0	7.0	5.0	15.0	11.0	13.0	10.0	12.0	10.0	7.0	6.0
30	8.0	3.0	10.0	5.0	13.0	9.0	13.0	10.0	12.0	9.0	7.0	6.0
31	---	---	7.0	5.0	---	---	13.0	10.0	11.0	9.0	---	---

09353000 VALLECITO RESERVOIR NEAR BAYFIELD, CO

LOCATION.--Lat 37°23'00", long 107°34'30", in SW¼SW¼ sec.18, T.36 N., R.6 W., La Plata County, Hydrologic Unit 14080101, in gatehouse above outlet gates at Vallecito Dam on Los Pinos (Pine) River, 300 ft (91 m) left of spillway, 0.4 mi (0.6 km) upstream from Jack Creek, and 11 mi (18 km) northeast of Bayfield.

PERIOD OF RECORD.--April 1941 to current year.

REVISED RECORDS.--WSP 959: 1941. WSP 1513: 1956.

GAGE.--Water-stage recorder. Datum of gage is 7,580 ft (2,310.4 m) National Geodetic Vertical Datum of 1929 (levels by U.S. Bureau of Reclamation); gage readings have been reduced to elevations NGVD.

REMARKS.--Reservoir is formed by earth and rockfill dam; dam completed in March 1941. Capacity of reservoir, 126,300 acre-ft (156 hm³) between elevations 7,580 ft (2,310.4 m), sill of outlet gate, and 7,665 ft (2,336.3 m), top of spillway gates. Dead storage, 3,395 acre-ft (4.19 hm³). Figures given are usable contents. Reservoir is used to store water for irrigation in Los Pinos (Pine) River basin.

COOPERATION.--Records furnished by Pine River Irrigation District.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 128,200 acre-ft (158 hm³) July 27, 1957, elevation, 7,665.72 ft (2,336.511 m); minimum, 1,520 acre-ft (1.87 hm³) Oct. 24, 25, 1944, elevation, 7,584.10 ft (2,311.634 m). No usable storage prior to April 1941.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 102,330 acre-ft (126 hm³) June 14, elevation, 7,655.89 ft (2,333.515 m); minimum, 43,850 acre-ft (54.1 hm³) Sept. 30, elevation, 7,629.00 ft (2,325.319 m).

MONTHEND ELEVATION IN FEET NGVD AND CONTENTS, AT 0900, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

Date	Elevation	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30.	7,644.11	74,080	-
Oct. 31.	7,636.05	56,970	-17,110
Nov. 30.	7,636.92	58,710	+1,740
Dec. 31.	7,636.98	58,830	+120
CAL YR 1980			+17,440
Jan. 31.	7,636.64	58,150	-680
Feb. 28.	7,637.02	58,910	+760
Mar. 31.	7,638.15	61,220	+2,310
Apr. 30.	7,644.78	75,590	+14,370
May 31.	7,650.18	88,210	+12,620
June 30.	7,652.10	92,880	+4,670
July 31.	7,648.17	83,420	-9,460
Aug. 31.	7,637.98	60,670	-22,550
Sept. 30.	7,629.00	43,850	-17,020
WTR YR 1981			-30,230

09353500 LOS PINOS RIVER NEAR BAYFIELD, CO
(LOCALLY KNOWN AS PINE RIVER)

LOCATION.--Lat 37°22'58", long 107°34'37", in SW¼ sec.18, T.36 N., R.6 W., La Plata County, Hydrologic Unit 14060101, on left side of outlet flume from Vallecito Reservoir, 0.4 mi (0.6 km) upstream from Jack Creek, 2.0 mi (3.2 km) upstream from Red Creek, and 11 mi (18 km) north of Bayfield.

DRAINAGE AREA.--270 mi² (700 km²), approximately.

PERIOD OF RECORD.--October 1927 to current year. Monthly discharge only for some periods, published in WSP 1313.

GAGE.--Water-stage recorder and concrete weir. Datum of gage is 7,582.54 ft (2,311.158 m), National Geodetic Vertical Datum of 1929 (levels by Water and Power Resources Service). See WSP 1713 or 1733 for history of changes prior to Aug. 18, 1956.

REMARKS.--Records good. Flow regulated by Vallecito Reservoir (station 09353000) since April 1941. Transmountain diversions above station by Weminuche Pass and Pine River-Weminuche Pass ditches (see elsewhere in this report).

COOPERATION.--Gage-height record is furnished by Pine River Irrigation District.

AVERAGE DISCHARGE.--13 years (water years 1928-40), 345 ft³/s (9.770 m³/s), 250,000 acre-ft/yr (308 hm³/yr), prior to completion of Vallecito Reservoir, 41 years (water years 1941-81), 353 ft³/s (9.997 m³/s), 255,700 acre-ft/yr (315 hm³/yr), subsequent to completion of Vallecito Reservoir.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 13,800 ft³/s (391 m³/s) July 27, 1957, gage height, 12.2 ft (3.72 m), from floodmarks at supplementary gage, from rating curve extended above 2,500 ft³/s (71 m³/s), on basis of slope-area measurement of peak flow (result of automatic spillway gates releasing from Vallecito Reservoir); minimum daily, 3.2 ft³/s (0.091 m³/s) Feb. 11, 1951 (result of storage in Vallecito Reservoir); minimum daily prior to construction of Vallecito Reservoir, 38 ft³/s (1.08 m³/s) Dec. 21, 22, 1937.

EXTREMES OUTSIDE PERIOD OF RECORD.--Greatest flood since at least 1885 occurred Oct. 5, 1911.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 753 ft³/s (21.3 m³/s) at 2000 June 26, gage height, 2.26 ft (0.689 m); minimum daily, 22 ft³/s (0.62 m³/s) Apr. 14-25.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	443	148	66	81	55	33	31	236	664	694	649	623
2	443	108	81	81	55	33	31	254	664	669	633	623
3	443	79	81	81	55	33	31	261	669	654	628	623
4	460	79	81	81	55	33	31	283	654	644	638	618
5	478	71	81	79	55	33	31	287	649	644	644	613
6	478	77	81	79	49	33	31	314	649	638	649	594
7	478	77	81	79	45	33	29	314	649	638	659	560
8	474	77	81	79	45	33	23	294	654	638	669	565
9	474	77	81	81	45	33	23	287	669	633	679	560
10	474	77	81	81	45	33	23	314	689	633	659	560
11	469	77	79	81	45	33	23	337	694	633	633	556
12	469	66	79	81	45	33	23	414	700	638	633	551
13	469	57	79	81	45	33	23	456	710	628	618	546
14	469	57	79	81	45	33	22	527	720	618	608	532
15	465	58	79	81	45	33	22	546	736	618	608	527
16	465	58	79	81	45	33	22	589	726	613	604	522
17	465	58	79	81	45	33	22	589	726	599	613	518
18	465	58	79	81	45	33	22	570	726	594	628	518
19	465	57	79	81	40	33	22	527	726	589	623	518
20	465	57	81	81	33	33	22	527	720	613	623	518
21	460	57	81	81	33	33	22	532	720	628	633	522
22	460	57	79	81	33	33	22	541	726	633	649	532
23	456	57	79	81	33	33	22	575	720	546	654	532
24	411	57	79	81	33	33	22	594	726	487	649	513
25	330	57	79	79	33	33	22	599	731	599	644	500
26	330	57	79	68	33	33	69	608	736	674	644	491
27	216	57	79	55	33	33	102	628	748	649	638	456
28	148	57	81	55	33	33	115	644	753	628	638	434
29	148	57	81	55	---	33	161	654	748	628	633	469
30	148	57	81	55	---	31	195	659	731	628	633	482
31	148	---	81	55	---	31	---	664	---	644	628	---
TOTAL	12566	2043	2466	2358	1201	1019	1259	14624	21133	19372	19741	16176
MEAN	405	68.1	79.5	76.1	42.9	32.9	42.0	472	704	625	637	539
MAX	478	148	81	81	55	33	195	664	753	694	679	623
MIN	148	57	66	55	33	31	22	236	649	487	604	434
AC-FT	24920	4050	4890	4680	2380	2020	2500	29010	41920	38420	39160	32090

CAL YR 1980 TOTAL 172889 MEAN 472 MAX 2190 MIN 45 AC-FT 342900
WTR YR 1981 TOTAL 113958 MEAN 312 MAX 753 MIN 22 AC-FT 226000

09354500 LOS PINOS RIVER AT LA BOCA, CO

LOCATION.--Lat 37°00'34", long 107°35'56", in NE¼NW¼ sec.22, T.32 N., R.7 W., La Plata County, Hydrologic Unit 14080101, on downstream end of right abutment of the Denver & Rio Grande Western Railroad Co. bridge, at southeast edge of La Boca, 0.1 mi (0.2 km) upstream from Spring Creek, and 13 mi (21 km) upstream from mouth.

DRAINAGE AREA.--510 mi² (1,320 km²), approximately.

PERIOD OF RECORD.--October 1950 to current year. Monthly discharge only for some periods, published in WSP 1733.

GAGE.--Water-stage recorder. Datum of gage is 6,143.58 ft (1,872.563 m), National Geodetic Vertical Datum of 1929.

REMARKS.--Records good except those for winter period, which are fair. Flow regulated by Vallecito Reservoir (station 09353000) 24 mi (39 km) upstream since April 1941. Diversions for irrigation of about 33,000 acres (130 km²) above station. Several observations of specific conductance and water temperature were obtained and are published elsewhere in this report.

AVERAGE DISCHARGE.--31 years, 213 ft³/s (6.032 m³/s), 154,300 acre-ft/yr (190 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,400 ft³/s (181 m³/s) July 27, 1957, gage height, 8.95 ft (2.728 m), from rating curve extended above 5,100 ft³/s (140 m³/s); minimum daily, 6.1 ft³/s (0.17 m³/s) May 1, 1977.

EXTREMES OUTSIDE PERIOD OF RECORD.--A major flood occurred Oct. 5, 1911, at this location.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 496 ft³/s (14.0 m³/s) at 1900 July 1, gage height, 4.73 ft (1.442 m); minimum daily, 35 ft³/s (0.99 m³/s) Apr. 28.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	128	160	90	100	50	55	55	54	130	360	163	172
2	122	148	100	98	55	58	55	66	130	302	163	160
3	125	112	110	98	65	74	58	74	148	214	142	148
4	120	95	108	98	65	68	60	95	160	175	133	148
5	139	92	108	98	65	60	54	85	142	172	130	190
6	151	90	110	95	65	60	52	105	133	160	120	242
7	160	85	120	95	65	58	52	88	118	145	115	222
8	163	82	110	95	62	57	50	55	110	145	130	187
9	157	80	102	95	62	54	47	44	105	163	163	190
10	160	80	95	95	58	52	47	50	95	175	202	190
11	163	85	98	98	55	64	49	47	95	184	242	190
12	160	78	98	95	60	76	50	47	105	206	234	178
13	175	80	100	95	62	90	52	58	108	230	175	178
14	187	76	100	95	60	100	50	62	115	187	151	184
15	270	80	102	98	58	110	72	72	125	254	151	163
16	302	85	102	100	58	115	74	118	133	194	151	151
17	286	85	108	98	58	82	74	190	125	169	148	145
18	290	80	110	95	58	66	70	142	122	163	148	151
19	286	75	110	98	58	60	85	110	133	151	148	148
20	286	75	108	98	55	60	78	110	128	133	139	148
21	278	75	110	98	47	68	70	115	128	118	145	145
22	274	70	110	98	46	68	62	100	122	122	163	145
23	270	75	110	98	46	60	62	105	120	175	172	154
24	270	85	105	95	46	58	60	108	118	172	166	163
25	226	80	105	95	46	58	58	108	115	142	154	172
26	322	75	108	98	49	58	57	98	120	194	151	148
27	314	70	108	88	50	60	74	105	130	210	160	142
28	234	70	105	72	50	66	35	110	130	157	160	139
29	194	80	105	70	---	60	47	110	139	142	151	133
30	166	80	102	70	---	58	57	120	136	145	148	130
31	163	---	102	72	---	58	---	136	---	142	175	---
TOTAL	6541	2583	3259	2891	1574	2091	1766	2887	3718	5601	4893	4956
MEAN	211	86.1	105	93.3	56.2	67.5	58.9	93.1	124	181	158	165
MAX	322	160	120	100	65	115	85	190	160	360	242	242
MIN	120	70	90	70	46	52	35	44	95	118	115	130
AC-FT	12970	5120	6460	5730	3120	4150	3500	5730	7370	11110	9710	9830

CAL YR 1980 TOTAL 147611 MEAN 403 MAX 2030 MIN 50 AC-FT 292800
WTR YR 1981 TOTAL 42760 MEAN 117 MAX 360 MIN 35 AC-FT 84810

09355000 SPRING CREEK AT LA BOCA, CO

LOCATION.--Lat 37°00'40", long 107°35'47", in SE¼SW¼ sec.15, T.32 N., R.7 W., La Plata County, Hydrologic Unit 14080101, on right bank in an excavated channel, 0.2 mi (0.3 km) upstream from mouth, and 0.2 mi (0.3 km) east of La Boca.

DRAINAGE AREA.--58 mi^2 (150 km^2), approximately.

PERIOD OF RECORD.--October 1950 to current year. Monthly discharge only for some periods, published in WSP 1733.

GAGE.--Water-stage recorder. Altitude of gage is 6,160 ft (1,878 m), from topographic map.

REMARKS.--Records good except those for winter period, which are fair. Part of flow is return waste from irrigation. Several observations of specific conductance and water temperature were obtained and are published elsewhere in this report.

AVERAGE DISCHARGE.--31 years, 30.4 ft^3/s (0.861 m^3/s), 22,020 acre-ft/yr (27.2 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,980 ft^3/s (56.1 m^3/s) Sept. 6, 1970, gage height, 4.62 ft (1.408 m), from rating curve extended above 160 ft^3/s (4.53 m^3/s), on basis of field estimate of peak flow; maximum gage height, 5.98 ft (1.823 m) Mar. 9, 1960 (backwater from ice); minimum daily discharge, 0.6 ft^3/s (0.017 m^3/s) Nov. 27, 1959.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 180 ft^3/s (5.1 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
May 31	0030	*298	8.44	1.83	0.558	July 1	2100	202	5.72	1.48	0.451

Minimum daily discharge, 2.0 ft^3/s (0.057 m^3/s) Apr. 23, 25-27.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	54	7.4	5.5	5.2	2.6	5.2	3.0	18	76	130	96	80
2	50	6.9	5.5	4.8	2.8	5.6	2.8	27	69	108	78	80
3	47	6.1	5.2	4.8	3.4	9.2	2.8	30	84	80	76	76
4	47	6.1	5.6	4.4	3.4	7.4	2.8	24	82	80	69	74
5	52	6.1	5.6	4.4	3.4	5.6	2.5	23	71	76	71	90
6	55	5.6	5.5	3.8	3.2	4.8	2.5	23	66	69	71	100
7	55	5.2	5.5	4.0	3.0	5.2	2.5	20	66	69	69	86
8	54	5.2	4.8	4.2	3.0	4.8	2.5	22	64	67	72	76
9	57	5.2	5.5	4.0	3.4	4.4	2.5	23	66	69	92	72
10	57	5.2	3.8	4.2	3.2	4.4	2.5	23	62	69	88	67
11	60	4.8	4.8	4.2	2.4	6.1	2.5	23	60	71	98	67
12	64	5.2	5.5	4.0	3.2	17	2.5	25	57	90	90	67
13	60	5.6	6.0	3.6	3.2	16	2.5	26	59	82	82	67
14	64	6.1	5.5	3.4	3.4	7.8	2.5	29	57	78	80	67
15	82	5.2	5.6	3.8	3.6	13	3.5	36	62	86	80	71
16	67	5.2	4.8	4.0	3.6	6.9	3.0	57	62	82	82	66
17	57	5.5	5.0	4.2	3.9	4.8	2.8	71	60	76	76	66
18	59	5.5	5.2	3.6	4.4	3.9	2.5	52	59	72	74	67
19	54	5.5	5.2	3.4	4.4	3.9	2.8	42	57	67	74	69
20	48	5.5	4.8	3.2	4.8	3.9	2.5	45	57	66	71	66
21	50	5.0	4.8	3.2	4.4	4.4	2.2	48	62	62	66	66
22	54	5.0	4.8	3.6	4.4	4.4	2.2	48	62	62	72	67
23	54	5.5	4.8	3.8	3.9	3.9	2.0	54	59	78	76	69
24	54	5.5	4.8	3.6	3.9	3.9	2.2	60	60	82	76	80
25	54	5.6	4.6	3.4	3.9	3.5	2.0	59	60	45	74	74
26	19	5.6	5.0	3.2	4.4	3.5	2.0	54	60	78	72	69
27	12	5.0	5.6	3.0	4.4	3.5	2.0	50	59	84	74	67
28	20	4.8	5.6	3.9	3.9	3.9	36	54	62	72	71	72
29	13	5.0	4.4	3.0	---	3.5	6.9	54	64	69	71	67
30	8.5	5.5	4.8	3.4	---	3.5	6.5	83	64	67	74	67
31	7.4	---	5.2	3.8	---	3.0	---	133	---	74	86	---
TOTAL	1488.9	165.6	159.3	119.1	101.5	180.9	117.5	1336	1908	2360	2401	2172
MEAN	48.0	5.52	5.14	3.84	3.63	5.84	3.92	43.1	63.6	76.1	77.5	72.4
MAX	82	7.4	6.0	5.2	4.8	17	36	133	84	130	98	100
MIN	7.4	4.8	3.8	3.0	2.4	3.0	2.0	18	57	45	66	66
AC-FT	2950	328	316	236	201	359	233	2650	3780	4680	4760	4310

CAL YR 1980 TOTAL 15951.3 MEAN 43.6 MAX 329 MIN 3.8 AC-FT 31640
WTR YR 1981 TOTAL 12509.8 MEAN 34.3 MAX 133 MIN 2.0 AC-FT 24810

09357500 ANIMAS RIVER AT HOWARDSVILLE, CO

LOCATION.--Lat 37°49'59", long 107°35'56", San Juan County, Hydrologic Unit 14080104, on right bank 1,000 ft (300 m) downstream from bridge on State Highway 110, 0.4 mi (0.6 km) southwest of Howardsville, and 0.4 mi (0.6 km) downstream from Cunningham Creek.

DRAINAGE AREA.--55.9 mi^2 (145 km^2).

PERIOD OF RECORD.--October 1935 to current year. Monthly discharge only for some periods, published in WSP 1313.

GAGE.--Water-stage recorder. Datum of gage is 9,616.98 ft (2,931.256 m), National Geodetic Vertical Datum of 1929. Prior to Aug. 18, 1939, at datum 1.00 ft (0.305 m) higher.

REMARKS.--Records good. No diversion above station. Several observations of water temperature were obtained and are published elsewhere in this report.

COOPERATION.--Records collected and computed by Colorado Division of Water Resources and reviewed by Geological Survey.

AVERAGE DISCHARGE.--46 years, 101 ft^3/s (2.860 m^3/s), 73,170 acre-ft/yr (90.2 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,980 ft^3/s (56.1 m^3/s) June 18, 1949, gage height, 4.36 ft (1.329 m), from rating curve extended above 950 ft^3/s (27 m^3/s); maximum gage height, 5.24 ft (1.597 m) Feb. 18, 1958 (backwater from snowslide); minimum daily discharge, 9.0 ft^3/s (0.25 m^3/s) Jan. 10, 1957, Feb. 15, Mar. 9, 1964, Feb. 13, 1965.

EXTREMES OUTSIDE PERIOD OF RECORD.--Greatest flood since at least 1885 occurred Oct. 5, 1911.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,000 ft^3/s (28.3 m^3/s) at 1900 June 7, gage height, 3.50 ft (1.067 m), only peak above base of 700 ft/s (20 m^3/s); minimum daily, 10 ft^3/s (0.28 m^3/s) Feb. 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	28	20	16	15	12	13	12	199	294	112	91	55
2	27	20	15	15	13	13	12	184	383	106	89	50
3	27	20	15	15	13	13	12	208	370	97	82	47
4	26	20	15	15	13	13	12	154	322	88	73	46
5	25	20	15	15	13	12	13	137	485	79	67	47
6	25	18	15	15	13	12	13	126	590	73	61	47
7	25	18	16	15	12	12	13	110	638	72	56	45
8	25	18	16	15	13	12	13	95	622	72	54	44
9	25	18	16	15	13	12	14	80	616	75	52	44
10	24	18	16	15	12	12	17	75	555	82	56	44
11	24	18	16	15	10	12	18	73	500	95	72	44
12	24	18	16	14	12	12	18	67	437	160	69	47
13	25	19	16	14	12	12	18	64	374	154	62	54
14	25	18	16	14	12	12	19	69	286	219	58	62
15	25	18	16	15	12	12	20	77	217	230	54	61
16	24	18	16	15	12	12	20	75	208	196	56	58
17	24	17	16	15	12	11	24	70	217	176	54	52
18	24	17	16	14	12	12	27	69	214	150	49	50
19	23	17	16	14	12	12	27	77	211	126	49	49
20	22	17	16	14	12	12	27	82	214	108	46	47
21	22	16	16	14	12	12	26	79	208	95	44	46
22	22	16	16	14	12	12	27	77	193	95	51	44
23	22	16	16	14	12	12	33	86	165	101	45	46
24	21	16	15	13	12	12	50	108	147	116	42	46
25	21	16	15	13	13	12	80	137	137	121	40	43
26	22	16	15	13	12	12	97	182	142	170	39	42
27	22	16	15	13	13	12	101	220	135	168	39	40
28	22	16	15	13	13	12	108	294	128	135	38	39
29	21	16	15	13	---	12	142	300	116	121	38	38
30	21	16	15	13	---	12	179	345	110	108	44	38
31	20	---	15	13	---	12	---	333	---	99	59	---
TOTAL	733	527	483	440	344	375	1192	4252	9234	3799	1729	1415
MEAN	23.6	17.6	15.6	14.2	12.3	12.1	39.7	137	308	123	55.8	47.2
MAX	28	20	16	15	13	13	179	345	638	230	91	62
MIN	20	16	15	13	10	11	12	64	110	72	38	38
AC-FT	1450	1050	958	873	682	744	2360	8430	18320	7540	3430	2810

CAL YR 1980 TOTAL 39057 MEAN 107 MAX 923 MIN 12 AC-FT 77470
WTR YR 1981 TOTAL 24523 MEAN 67.2 MAX 638 MIN 10 AC-FT 48640

09361500 ANIMAS RIVER AT DURANGO, CO

LOCATION.--Lat 37°16'45", long 107°52'47", in SW¼SW¼ sec.20, T.35 N., R.9 W., La Plata County, Hydrologic Unit 14080104, on left bank at Western Colorado Power Co.'s plant at Durango, 0.8 mi (1.3 km) upstream from Lightner Creek.

DRAINAGE AREA.--692 mi^2 (1,792 km^2).

PERIOD OF RECORD.--June to December 1895, April 1896 to December 1898, April 1899 to December 1900, March to May 1901, April to November 1902, March to April 1903 (gage heights only, erroneously stated as discredited in WSP 1563), May to October 1903, July 1904 to December 1905, January to December 1910 (gage heights only), January to September 1911, January 1912 to current year. Monthly or yearly discharge only for some periods, published in WSP 1313.

REVISED RECORDS.--WSP 764: Drainage area. WSP 929: 1927(M). WSP 1243: 1911, 1918(M). WSP 1563: 1911-25 (monthly figures only).

GAGE.--Water-stage recorder. Datum of gage is 6,501.57 ft (1,981.679 m), National Geodetic Vertical Datum of 1929. See WSP 1713 or 1733 for history of changes prior to Mar. 2, 1921.

REMARKS.--Records good. Diversions for irrigation of about 4,000 acres (16 km^2) above station. Natural regulation by many lakes and regulation for power above station. Several observations of specific conductance and water temperature were obtained and are published elsewhere in this report.

AVERAGE DISCHARGE.--76 years (water years 1897-1900, 1905, 1911-81), 834 ft^3/s (23.62 m^3/s), 604,200 acre-ft/yr (745 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 25,000 ft^3/s (708 m^3/s) Oct. 5, 1911, gage height, 11 ft (3.4 m), present site and datum, from rating curve extended above 13,000 ft^3/s (370 m^3/s); minimum daily, 94 ft^3/s (2.66 m^3/s) Mar. 2, 1913.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1885, that of Oct. 5, 1911.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,220 ft^3/s (120 m^3/s) at 0630 June 8, gage height, 5.50 ft (1.676 m), only peak above base of 4,000 ft^3/s (110 m^3/s); minimum daily, 135 ft^3/s (3.82 m^3/s) Feb. 23.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	258	212	218	180	167	151	169	1680	1950	628	530	362
2	254	209	215	180	165	155	173	1720	2070	691	490	344
3	258	206	209	190	167	155	180	2190	2420	646	474	315
4	242	206	209	198	171	153	182	2110	1930	578	429	300
5	230	206	209	200	165	151	178	1570	2090	530	401	320
6	224	209	212	192	161	157	178	1320	2800	474	350	387
7	215	209	215	173	161	155	185	1140	3180	443	315	422
8	212	209	206	180	157	153	198	1010	3500	422	295	408
9	209	206	190	175	159	151	198	880	3420	522	290	387
10	209	206	185	175	161	153	212	810	3210	594	295	387
11	206	200	192	175	153	163	250	760	2980	619	362	394
12	203	198	200	182	153	159	285	691	2700	850	602	408
13	206	206	195	180	157	157	285	628	2290	1150	538	482
14	212	221	198	175	155	161	295	594	1910	1240	466	554
15	234	221	185	173	153	157	326	637	1450	1560	429	562
16	254	215	190	173	151	157	332	682	1210	1450	415	530
17	250	221	190	180	151	157	362	673	1190	1200	436	490
18	246	218	188	175	147	159	436	602	1210	1070	401	450
19	238	215	192	173	147	157	538	637	1110	910	368	422
20	230	224	190	180	145	157	522	682	1160	770	356	394
21	227	227	188	180	143	161	474	720	1150	664	338	368
22	224	230	185	178	139	161	522	673	1120	594	344	350
23	224	238	188	180	135	157	586	655	1030	586	356	338
24	218	250	185	180	141	163	710	691	850	655	326	374
25	212	227	180	178	147	165	870	770	790	646	326	368
26	215	227	185	173	151	165	1010	930	740	730	315	338
27	221	227	185	173	151	169	1080	1050	720	950	300	315
28	218	218	182	182	147	169	1060	1670	700	800	305	310
29	215	224	182	182	---	169	1170	1980	664	691	295	300
30	212	221	180	175	---	169	1430	1840	628	619	285	310
31	212	---	178	171	---	171	---	2220	---	570	315	---
TOTAL	6988	6506	6006	5561	4300	4937	14396	34215	52172	23852	11747	11689
MEAN	225	217	194	179	154	159	480	1104	1739	769	379	390
MAX	258	250	218	200	171	171	1430	2220	3500	1560	602	562
MIN	203	198	178	171	135	151	169	594	628	422	285	300
AC-FT	13860	12900	11910	11030	8530	9790	28550	67870	103500	47310	23300	23190

CAL YR 1980 TOTAL 369789 MEAN 1010 MAX 7550 MIN 167 AC-FT 733500
WTR YR 1981 TOTAL 182369 MEAN 500 MAX 3500 MIN 135 AC-FT 361700

09363050 FLORIDA RIVER BELOW FLORIDA FARMERS DITCH, NEAR DURANGO, CO

LOCATION.--Lat 37°17'42", long 107°47'28", in SW¼SW¼ sec.18, T.35 N., R.8 W., La Plata County, Hydrologic Unit 14080104, on right bank 30 ft (9 m) downstream from diversion dam for Florida Farmers ditch and 4.0 mi (6.4 km) east of Riverview School in Durango.

DRAINAGE AREA.--108 mi² (280 km²).

PERIOD OF RECORD.--October 1967 to current year.

GAGE.--Water-stage recorder. Datum of gage is 7,065.35 ft (2,153.519 m), National Geodetic Vertical Datum of 1929 (levels by Water and Power Resources Service).

REMARKS.--Records good except those for winter period, which are fair. Flow regulated by Lemon Reservoir, capacity, 40,100 acre-ft (49.4 hm³). Diversions above station for irrigation above and below station and for municipal supply of Durango. Several observations of specific conductance and water temperature were obtained and are published elsewhere in this report.

AVERAGE DISCHARGE.--14 years, 38.9 ft³/s (1.102 m³/s), 28,180 acre-ft/yr (34.7 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,100 ft³/s (31.2 m³/s) May 19, 1973, gage height, 5.70 ft (1.737 m); minimum daily, 0.70 ft³/s (0.020 m³/s) Oct. 14, 1968, Oct. 17, 1973.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 116 ft³/s (3.29 m³/s) at 0800 June 1, gage height, 2.60 ft (0.792 m); minimum daily, 1.3 ft³/s (0.037 m³/s) May 14.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.5	7.5	7.5	10	2.1	4.6	10	15	16	11	7.5	5.8
2	5.2	7.9	7.0	14	2.2	4.1	12	13	17	9.9	7.5	5.8
3	5.2	8.3	8.7	13	2.8	4.8	13	18	20	9.5	7.5	6.0
4	5.2	6.5	7.9	12	3.7	3.7	6.7	7.3	16	8.7	7.5	6.0
5	5.0	6.2	7.9	10	3.5	3.5	7.7	2.8	16	8.7	7.0	6.0
6	5.0	6.8	8.3	4.8	3.2	4.3	12	3.0	16	8.3	6.8	6.0
7	4.8	6.0	8.7	4.4	3.0	3.5	12	3.5	18	5.8	6.5	6.0
8	4.8	6.0	6.2	4.4	3.0	4.3	9.9	2.4	18	6.0	6.8	7.0
9	4.8	6.5	6.8	4.3	3.6	4.1	9.9	1.8	18	5.8	7.0	7.9
10	4.8	6.8	5.8	4.8	3.4	4.1	9.9	1.7	16	5.5	6.8	7.5
11	4.6	6.8	8.7	4.8	3.0	3.9	10	1.5	16	5.0	6.0	7.5
12	4.3	6.2	9.5	4.8	3.2	6.2	9.5	1.4	16	5.0	4.6	7.5
13	4.3	7.2	8.7	3.7	3.2	4.6	8.3	1.4	16	5.0	3.0	7.5
14	4.8	9.1	8.3	3.2	3.4	6.0	10	1.3	15	8.3	2.0	7.2
15	10	8.7	8.3	2.8	3.6	4.6	19	4.9	15	12	2.0	7.2
16	3.7	9.1	7.5	2.8	3.6	5.5	18	12	15	12	2.0	7.2
17	9.4	8.7	8.3	3.0	3.6	5.8	18	11	14	12	2.0	7.2
18	12	7.2	8.3	2.7	3.6	6.5	20	11	11	9.1	2.0	7.2
19	13	7.0	7.9	2.5	3.6	6.5	24	13	9.1	3.7	2.5	7.5
20	13	7.2	7.0	2.5	3.4	6.8	22	16	8.7	3.5	3.9	7.5
21	12	7.5	8.3	2.7	3.6	7.0	22	16	8.7	4.6	3.9	7.5
22	10	7.5	7.9	2.5	3.4	7.0	21	15	7.5	6.5	4.1	7.2
23	10	8.3	7.2	2.8	3.2	7.9	20	12	5.2	6.5	3.9	7.2
24	11	8.0	7.0	2.7	3.0	9.5	20	12	5.0	5.2	3.7	7.2
25	10	8.0	7.2	2.2	2.5	9.5	19	12	5.5	3.7	3.7	6.2
26	11	7.0	7.5	2.2	2.7	9.5	18	12	9.5	3.7	3.5	5.2
27	12	6.8	10	2.7	3.0	9.9	17	14	12	3.5	3.2	5.2
28	9.5	7.0	11	3.0	4.1	9.1	17	16	12	3.0	3.2	5.0
29	9.9	7.5	11	2.6	---	8.3	19	16	12	3.7	3.0	4.1
30	9.5	7.5	7.5	2.4	---	9.9	18	15	11	6.0	2.8	4.3
31	7.5	---	7.5	2.4	---	9.5	---	15	---	7.0	3.7	---
TOTAL	241.8	220.8	249.4	142.7	90.2	194.5	452.9	297.0	395.2	208.2	139.6	196.6
MEAN	7.80	7.36	8.05	4.60	3.22	6.27	15.1	9.58	13.2	6.72	4.50	6.55
MAX	13	9.1	11	14	4.1	9.9	24	18	20	12	7.5	7.9
MIN	3.7	6.0	5.8	2.2	2.1	3.5	6.7	1.3	5.0	3.0	2.0	4.1
AC-FT	480	438	495	283	179	386	898	589	784	413	277	390

CAL YR 1980 TOTAL 30646.0 MEAN 83.7 MAX 685 MIN 3.7 AC-FT 60790
WTR YR 1981 TOTAL 2828.9 MEAN 7.75 MAX 24 MIN 1.3 AC-FT 5610

09363100 SALT CREEK NEAR OXFORD, CO

LOCATION.--Lat 37°08'23", long 107°45'10", in NE¼NE¼ sec.6, T.33 N., R.8 W., La Plata County, Hydrologic Unit 14080104, on right bank 2.9 mi (4.7 km) upstream from mouth, 3.0 mi (4.8 km) southwest of Oxford, and 11 mi (18 km) southeast of Durango.

DRAINAGE AREA.--16.7 mi^2 (43.3 km^2).

PERIOD OF RECORD.--October 1956 to September 1963, October 1967 to current year.

REVISED RECORDS.--WSP 1925: 1960.

GAGE.--Water-stage recorder. Altitude of gage is 6,470 ft (1,972 m), from topographic map. Prior to October 1967, at site 0.2 mi (0.3 km) upstream at different datum.

REMARKS.--Records good except those for winter period, which are poor. Most of flow is return flow from areas irrigated by water imported from Los Pinos River. Several observations of specific conductance and water temperature were obtained and are published elsewhere in this report.

AVERAGE DISCHARGE.--21 years, 12.1 ft^3/s (0.343 m^3/s), 8,770 acre-ft/yr (10.8 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 811 ft^3/s (23.0 m^3/s) Oct. 19, 1972, gage height, 5.24 ft (1.597 m), from rating curve extended above 200 ft^3/s (5.7 m^3/s), on basis of slope-area measurements at gage heights 3.54 and 5.24 ft (1.079 and 1.597 m); no flow at times in 1959-60, 1962, 1977, 1978.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 77 ft^3/s (2.18 m^3/s) at 2030 July 1, gage height, 2.99 ft (0.911 m); minimum daily, 0.16 ft^3/s (0.005 m^3/s) May 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25	16	2.3	1.3	.40	.88	.45	.16	12	60	25	16
2	25	16	2.4	1.5	.25	1.3	.45	.19	11	42	21	15
3	23	14	2.6	1.4	.30	2.0	.55	.55	14	22	20	15
4	23	11	2.4	1.3	.30	2.0	.45	.45	16	20	18	16
5	24	10	2.3	1.5	.30	1.2	.35	.40	14	19	16	18
6	21	9.2	2.3	1.3	.30	.97	.30	1.2	14	16	16	23
7	21	8.9	2.2	1.1	.30	.88	.40	1.0	14	14	16	22
8	19	12	2.2	1.2	.25	.88	.35	1.9	13	14	16	21
9	19	10	2.0	1.1	.20	.70	.30	.65	12	17	18	24
10	19	8.3	2.0	1.1	.20	.70	.30	.55	13	16	18	22
11	21	8.0	2.0	1.2	.25	1.2	.25	.45	14	15	24	23
12	22	7.4	1.9	1.1	.20	1.6	.19	6.3	15	16	26	24
13	23	8.3	1.9	1.2	.30	4.0	.20	15	14	23	20	23
14	26	7.4	1.9	.97	.35	4.6	.25	8.0	15	20	20	23
15	37	6.1	1.8	.79	.40	8.8	.88	10	16	22	20	22
16	36	5.9	1.7	.88	.40	9.0	.88	18	13	19	17	22
17	28	5.5	1.7	.88	.50	4.2	.55	25	12	17	16	20
18	23	5.5	1.8	.79	.50	2.0	.45	14	11	14	14	21
19	20	5.5	1.9	.70	.55	1.5	1.3	10	11	14	14	22
20	19	5.7	1.8	.79	.55	1.4	.88	9.2	10	13	14	20
21	19	5.5	1.8	.70	.50	1.4	.55	10	9.5	12	15	20
22	18	5.5	1.7	.60	.40	2.0	.35	8.3	9.5	14	18	20
23	17	5.5	1.7	.50	.40	1.2	.30	9.5	10	17	23	21
24	18	5.0	1.6	.65	.45	.88	.20	11	12	16	19	25
25	17	5.1	1.4	.55	.45	.65	.20	11	13	14	16	26
26	18	5.0	1.4	.50	.50	.65	.20	9.8	13	25	16	22
27	16	4.0	1.4	.45	.55	.79	.20	8.6	14	37	15	23
28	22	3.0	1.8	.45	.60	.88	.19	8.6	17	29	15	20
29	15	2.7	1.8	.55	---	.65	.18	11	19	26	14	17
30	13	2.6	1.6	.45	---	.60	.17	12	16	25	14	20
31	13	---	1.4	.45	---	.45	---	12	---	23	16	---
TOTAL	660	224.6	58.7	27.95	10.65	59.96	12.27	234.80	397.0	651	550	626
MEAN	21.3	7.49	1.89	.90	.38	1.93	.41	7.57	13.2	21.0	17.7	20.9
MAX	37	16	2.6	1.5	.60	9.0	1.3	25	19	60	26	26
MIN	13	2.6	1.4	.45	.20	.45	.17	.16	9.5	12	14	15
AC-FT	1310	445	116	55	21	119	24	466	787	1290	1090	1240

CAL YR 1980 TOTAL 6285.44 MEAN 17.2 MAX 154 MIN .40 AC-FT 12470
WTR YR 1981 TOTAL 3512.93 MEAN 9.62 MAX 60 MIN .16 AC-FT 6970

09363200 FLORIDA RIVER AT BONDAD, CO

LOCATION.--Lat 37°03'24", long 107°52'09", in NE¼SW¼ sec.31, T.33 N., R.9 W., La Plata County, Hydrologic Unit 14080104, on left bank 40 ft (12 m) downstream from BIA bridge, 0.6 mi (1.0 km) upstream from mouth, 0.7 mi (1.1 km) northeast of Bondad, and 15 mi (24 km) south of Durango.

DRAINAGE AREA.--221 mi² (572 km²).

PERIOD OF RECORD.--October 1956 to September 1963, October 1967 to current year.

REVISED RECORDS.--WSP 1713: 1958.

GAGE.--Water-stage recorder. Altitude of gage is 6,000 ft (1,829 m), from topographic map. Prior to Sept. 11, 1958, at site 300 ft (91 m) upstream at datum 2.39 ft (0.728 m) higher.

REMARKS.--Records good. Diversion for irrigation of about 20,000 acres (81 km²) above station. Flow regulated by Lemon Reservoir, capacity, 40,100 acre-ft (49.4 hm³) since November 1963. Most of flow is return flow from irrigated areas. Several observations of specific conductance and water temperature were obtained and are published elsewhere in this report.

AVERAGE DISCHARGE.--7 years (water years 1957-63), 78.8 ft³/s (2.203 m³/s), 56,370 acre-ft/yr (69.5 hm³/yr), prior to completion of Lemon Dam; 14 years (water years 1968-81), 72.8 ft³/s (2.062 m³/s), 52,740 acre-ft/yr (65.0 hm³/yr), subsequent to completion of Lemon Dam.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,640 ft³/s (46.4 m³/s) Oct. 19, 1972, gage height, 6.30 ft (1.920 m), from rating curve extended above 1,100 ft³/s (31 m³/s), on basis of slope-area measurement of peak flow; minimum daily, 4.6 ft³/s (0.13 m³/s) July 24, 1959.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 530 ft³/s (15.0 m³/s) at 2000 July 14, gage height, 5.10 ft (1.554 m); minimum daily, 12 ft³/s (0.34 m³/s) May 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	63	45	38	38	21	26	25	22	32	90	51	39
2	62	48	36	39	22	26	26	22	32	93	48	40
3	60	47	37	37	24	29	27	20	34	52	42	39
4	59	43	38	35	24	27	27	20	41	36	39	44
5	59	41	37	34	22	24	24	18	33	37	38	43
6	60	40	36	32	23	24	22	17	31	35	37	50
7	58	39	40	28	21	24	24	14	27	31	37	51
8	58	42	38	28	20	22	24	14	27	28	36	48
9	60	42	33	27	25	23	23	16	26	38	39	55
10	62	39	32	26	24	24	22	14	27	39	42	52
11	62	39	33	27	19	27	22	12	26	35	50	52
12	63	39	35	28	21	28	22	13	27	37	63	49
13	66	41	38	28	22	30	22	20	27	61	49	50
14	72	42	35	24	24	36	22	18	29	114	44	50
15	116	39	35	24	24	35	27	16	30	78	44	47
16	118	39	34	26	25	43	29	22	33	51	40	45
17	80	39	35	27	24	34	27	33	34	44	40	59
18	63	39	35	26	24	27	27	27	30	41	40	44
19	60	37	35	24	24	26	32	22	26	39	35	44
20	58	38	35	23	24	27	32	24	26	35	37	48
21	56	37	32	24	24	27	30	23	24	35	39	47
22	52	37	33	24	23	28	28	23	24	34	40	43
23	51	38	34	24	23	26	26	21	27	43	49	42
24	50	45	32	24	23	26	26	22	28	42	50	46
25	52	43	31	22	22	26	26	23	30	41	47	59
26	51	42	32	21	22	26	26	21	27	58	43	51
27	58	36	33	22	22	27	24	21	27	76	43	52
28	62	35	32	27	22	28	24	22	27	65	39	50
29	53	37	43	24	---	26	23	26	29	62	36	42
30	47	39	44	23	---	26	24	30	27	58	37	47
31	46	---	40	24	---	26	---	37	---	52	38	---
TOTAL	1937	1207	1101	840	638	854	763	653	868	1580	1312	1428
MEAN	62.5	40.2	35.5	27.1	22.8	27.5	25.4	21.1	28.9	51.0	42.3	47.6
MAX	118	48	44	39	25	43	32	37	41	114	63	59
MIN	46	35	31	21	19	22	22	12	24	28	35	39
AC-FT	3840	2390	2180	1670	1270	1690	1510	1300	1720	3130	2600	2830

CAL YR 1980 TOTAL 51333 MEAN 140 MAX 732 MIN 24 AC-FT 101800
WTR YR 1981 TOTAL 13181 MEAN 36.1 MAX 118 MIN 12 AC-FT 26140

09363500 ANIMAS RIVER NEAR CEDAR HILL, NM

LOCATION.--Lat 37°02'17", long 107°52'25", in sec.7, T.32 N., R.9 W., La Plata County, CO, Hydrologic Unit 14080104, on right bank 0.8 mi (1.3 km) downstream from Florida River, 2.5 mi (4.0 km) upstream from Colorado-New Mexico State line, 8.5 mi (13.7 km) north of Cedar Hill, and at mile 32.9 (km 52.9).

DRAINAGE AREA.--1,090 mi^2 (2,820 km^2), approximately.

PERIOD OF RECORD.--October 1933 to current year. Monthly discharge only for October and November 1933, published in WSP 1313.

REVISED RECORDS.--WSP 1563: 1940 and 1946 (monthly figures only).

GAGE.--Water-stage recorder. Altitude of gage is 5,960 ft (1,817 m), from topographic map. Prior to Sept. 14, 1937, at datum between 1.52 and 1.36 ft (0.46 and 0.41 m) higher. Sept. 15, 1937, to Sept. 30, 1946, at datum 1.36 ft (0.41 m) higher.

REMARKS.--Records good except those for winter period, which are poor. Diversions for irrigation of about 20,000 acres (81 km^2) above station. During water years 1944-49, Twin Rocks Canal diverted above station for irrigation below. Slight regulation by Lemon Dam, capacity, 40,100 acre-ft (49.4 hm^3), about 30 mi (50 km) upstream on Florida River since November 1963.

AVERAGE DISCHARGE.--48 years, 892 ft^3/s (25.26 m^3/s), 646,300 acre-ft/yr (797 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 13,100 ft^3/s (371 m^3/s) June 19, 1949, gage height, 11.45 ft (3.490 m); minimum, 63 ft^3/s (1.78 m^3/s) Jan. 21, 1935.

EXTREMES OUTSIDE PERIOD OF RECORD.--A flood in October 1911 exceeded all other known floods at this location.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,060 ft^3/s (115 m^3/s) at 0945 June 8, gage height, 7.80 ft (2.225 m), only peak above base of 4,000 ft^3/s (110 m^3/s); minimum daily, 150 ft^3/s (4.25 m^3/s).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	309	291	278	230	170	216	209	1570	2280	636	663	423
2	302	290	278	234	150	220	209	1620	2340	630	630	408
3	322	284	274	238	155	238	220	1840	2610	624	587	374
4	315	279	270	246	165	223	223	2010	2410	618	548	367
5	283	283	266	246	175	212	209	1550	2440	599	479	410
6	275	277	269	242	190	220	202	1380	2980	567	435	428
7	265	274	278	209	195	220	212	1220	3310	528	396	463
8	268	277	276	202	198	205	230	1050	3560	481	363	462
9	271	274	251	198	192	202	234	927	3640	583	368	440
10	268	274	236	192	198	205	226	823	3510	658	365	431
11	270	271	250	192	190	226	278	767	3500	758	437	422
12	277	265	250	198	185	238	346	697	3400	837	654	426
13	280	271	254	195	192	226	355	648	3110	1250	630	475
14	297	281	242	192	195	238	350	594	2690	1490	552	543
15	358	283	238	189	198	238	410	603	2200	1710	474	593
16	390	278	242	185	198	238	410	669	1960	1590	450	573
17	359	276	242	189	195	223	425	679	1890	1350	462	533
18	342	278	246	189	195	209	504	623	1920	1170	450	495
19	327	270	246	182	195	189	636	610	1810	966	420	465
20	320	282	238	192	192	192	642	656	1870	817	396	439
21	316	286	234	195	192	212	594	694	1860	709	382	413
22	312	290	230	192	189	212	594	667	1800	635	364	392
23	307	290	230	189	182	212	684	658	1720	608	391	379
24	298	302	250	192	185	223	795	686	1530	675	382	415
25	292	294	223	189	195	223	954	788	983	706	373	433
26	295	270	223	182	206	212	1120	946	762	775	364	393
27	314	270	234	195	209	220	1220	1200	710	1070	352	364
28	320	270	230	185	206	223	1200	1690	711	926	349	352
29	302	262	242	195	---	212	1270	2170	692	814	356	337
30	290	270	242	185	---	209	1450	2140	652	731	341	332
31	290	---	234	185	---	209	---	2380	---	696	353	---
TOTAL	9434	8362	7696	6224	5287	6745	16411	34555	64850	26207	13766	12980
MEAN	304	279	248	201	189	218	547	1115	2162	845	444	433
MAX	390	302	278	246	209	238	1450	2380	3640	1710	663	593
MIN	265	262	223	182	150	189	202	594	652	481	341	332
AC-FT	18710	16590	15270	12350	10490	13380	32550	68540	128600	51980	27300	25750

CAL YR 1980 TOTAL 449728 MEAN 1229 MAX 7820 MIN 182 AC-FT 892000
WTR YR 1981 TOTAL 212517 MEAN 582 MAX 3640 MIN 150 AC-FT 421500

09365500 LA PLATA RIVER AT HESPERUS, CO

LOCATION.--Lat 37°17'23", long 108°02'24", in NE¼SE¼ sec.14, T.35 N., R.11 W., La Plata County, Hydrologic Unit 14080105, on right bank at Hesperus 700 ft (213 m) downstream from U.S. Highway 160.

DRAINAGE AREA.--37 mi^2 (96 km^2), approximately.

PERIOD OF RECORD.--June to August 1904, May 1905 to September 1906, August to November 1910, June 1917 to current year. Monthly discharge only for some periods, published in WSP 1313. Records for Nov. 11 to Dec. 31, 1910, published in WSP 289, have been found to be unreliable and should not be used.

REVISED RECORDS.--WSP 1243: 1906(M). WSP 1563: 1923 (monthly figures only). See also PERIOD OF RECORD.

GAGE.--Water-stage recorder. Datum of gage is 8,104.71 ft (2,470.316 m), National Geodetic Vertical Datum of 1929. Prior to May 1, 1920, nonrecording gage, and May 1, 1920, to May 24, 1927, water-stage recorder, at several sites about 600 ft (180 m) downstream at different datums. May 25, 1927, to Sept. 30, 1938, water-stage recorder at site 60 ft (18 m) downstream and Oct. 1, 1938, to Sept. 30, 1941, at present site at datum 1.00 ft (0.305 m) higher.

REMARKS.--Records good. Cherry Creek ditch exports water above station for irrigation of about 2,000 acres (8.09 km^2) in Cherry Creek drainage. Several observations of water temperature were obtained and are published elsewhere in this report.

COOPERATION.--Records collected and computed by Colorado Division of Water Resources and reviewed by Geological Survey.

AVERAGE DISCHARGE.--65 years (water years 1906, 1918-81), 44.5 ft^3/s (1.260 m^3/s), 32,240 acre-ft/yr (39.8 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,880 ft^3/s (53.2 m^3/s) Sept. 22, 1941, gage height, 4.30 ft (1.311 m), present datum, from rating curve extended above 620 ft^3/s (18 m^3/s), on basis of slope-area measurement of peak flow; maximum gage height, 5.13 ft (1.564 m) Sept. 6, 1970; no flow part of Oct. 24, 1966, caused by filling of pond upstream.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum flood observed occurred Oct. 5, 1911.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 236 ft^3/s (6.68 m^3/s) at 2300 May 3, gage height, 2.77 ft (0.844 m), only peak above base of 230 ft^3/s (6.5 m^3/s); minimum daily, 4.5 ft^3/s (0.13 m^3/s) Feb. 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	10	8.2	7.3	5.0	4.8	7.3	184	72	38	18	16
2	12	10	8.2	7.3	5.0	5.5	8.2	181	72	31	18	14
3	12	10	8.2	7.3	6.0	5.5	9.0	219	79	21	16	14
4	11	10	7.7	7.3	7.0	5.2	8.2	158	60	21	16	14
5	11	9.5	7.7	7.3	6.5	5.2	8.2	103	62	24	16	16
6	11	9.5	8.2	6.9	6.0	6.2	8.6	72	95	24	16	16
7	11	9.5	8.2	6.9	6.0	5.8	10	60	129	24	15	18
8	10	9.5	7.3	6.9	6.0	5.8	12	53	122	24	14	18
9	10	9.5	6.5	6.9	6.5	5.8	14	42	111	28	15	18
10	10	10	6.5	6.9	5.5	5.8	17	39	93	45	16	18
11	9.8	10	7.0	6.9	4.5	6.6	18	44	88	38	18	17
12	9.5	10	7.5	6.9	5.0	6.2	21	38	74	27	24	16
13	9.8	11	7.5	6.9	5.5	6.2	26	32	60	48	20	16
14	9.5	11	7.0	6.9	6.0	6.6	32	30	48	40	17	16
15	11	11	7.0	6.9	6.0	6.6	38	36	38	39	16	16
16	11	11	6.9	7.3	6.0	6.6	39	36	33	33	20	16
17	10	11	6.9	7.3	6.0	5.8	51	31	30	26	18	15
18	10	11	6.9	7.3	6.0	5.8	72	26	29	21	18	14
19	10	11	6.9	6.9	6.5	5.8	76	28	28	18	18	14
20	10	10	6.9	6.6	6.0	6.2	61	31	30	18	16	14
21	9.0	10	6.9	6.6	5.0	6.6	56	25	36	16	15	14
22	9.0	9.5	6.9	6.6	5.2	6.2	67	30	39	18	15	13
23	9.0	9.0	6.9	6.6	5.2	6.2	90	34	38	16	14	14
24	9.0	10	6.9	6.6	5.2	6.6	113	38	38	16	15	14
25	9.0	9.5	6.9	6.2	5.2	6.9	139	42	37	16	16	13
26	10	9.0	6.9	5.8	5.5	7.3	155	46	36	21	18	13
27	10	8.6	6.9	5.8	5.5	7.7	144	66	34	20	17	13
28	10	8.6	7.3	5.8	5.2	7.3	141	105	32	18	16	12
29	10	8.2	7.3	5.8	---	7.3	160	93	28	18	16	12
30	10	8.2	7.3	5.8	---	6.9	172	74	26	18	16	12
31	10	---	7.3	5.5	---	6.9	---	70	---	19	16	---
TOTAL	316.6	295.1	224.7	208.0	159.0	193.9	1773.5	2066	1697	784	519	446
MEAN	10.2	9.84	7.25	6.71	5.68	6.25	59.1	66.6	56.6	25.3	16.7	14.9
MAX	13	11	8.2	7.3	7.0	7.7	172	219	129	48	24	18
MIN	9.0	8.2	6.5	5.5	4.5	4.8	7.3	25	26	16	14	12
AC-FT	628	585	446	413	315	385	3520	4100	3370	1560	1030	885

CAL YR 1980 TOTAL 26440.6 MEAN 72.2 MAX 664 MIN 4.0 AC-FT 52440
WTR YR 1981 TOTAL 8682.8 MEAN 23.8 MAX 219 MIN 4.5 AC-FT 17220

09366500 LA PLATA RIVER AT COLORADO-NEW MEXICO STATE LINE

LOCATION.--Lat 36°59'51", long 108°11'17", in NW¼SE¼ sec.10, T.32 N., R.13 W., La Plata County, CO, Hydrologic Unit 14080105, on right bank at Colorado-New Mexico State line, 0.2 mi (0.3 km) downstream from Ponds Arroyo, and 4.8 mi (7.7 km) north of La Plata, NM.

DRAINAGE AREA.--331 mi² (857 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--January 1920 to current year. Monthly discharge only for some periods, published in WSP 1313.

REVISED RECORDS.--WSP 1313: 1934(M), 1936(M).

GAGE.--Water-stage recorder. Datum of gage is 5,975.15 ft (1,821.226 m), National Geodetic Vertical Datum of 1929. See WSP 1713 or 1733 for history of changes prior to Mar. 17, 1934.

REMARKS.--Records good. Diversions above station for irrigation of about 15,000 acres (60.7 km²), mostly above station. Several observations of specific conductance and water temperature were obtained and are published elsewhere in this report.

COOPERATION.--Records collected and computed by Colorado Division of Water Resources and reviewed by Geological Survey.

AVERAGE DISCHARGE.--61 years, 34.6 ft³/s (0.980 m³/s), 25,070 acre-ft/yr (30.9 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,750 ft³/s (135 m³/s) Aug. 24, 1927, gage height, 11.36 ft (3.463 m), present datum, from rating curve extended above 750 ft³/s (21 m³/s), on basis of slope-area measurement of peak flow; no flow at times in many years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,300 ft³/s (93.5 m³/s) at 0130 June 13, gage height, 8.98 ft (2.737 m); minimum daily, 1.2 ft³/s (0.034 m³/s) Aug. 7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.8	12	12	16	12	10	5.1	70	54	23	6.0	3.2
2	5.8	12	12	16	10	9.5	4.1	82	51	30	3.5	2.6
3	5.4	11	12	16	11	9.5	4.1	96	64	14	2.9	2.6
4	5.4	11	12	16	12	9.0	5.4	99	66	7.5	2.6	2.9
5	5.8	11	12	16	12	9.0	6.2	83	32	5.8	2.4	3.8
6	5.4	10	13	14	12	8.5	4.8	83	36	4.8	1.8	4.1
7	5.8	11	14	14	12	8.5	4.4	59	59	4.8	1.2	3.8
8	5.8	11	14	14	11	7.0	4.1	47	67	37	1.6	3.2
9	5.8	11	14	14	13	6.6	5.4	30	74	18	2.9	2.9
10	5.8	12	14	14	12	6.6	9.0	21	72	17	2.9	2.9
11	6.2	12	15	13	11	8.5	12	18	69	18	23	2.9
12	6.2	10	15	13	11	8.5	12	23	69	39	26	2.6
13	6.2	11	15	13	12	8.0	8.5	31	55	585	6.2	3.2
14	8.5	11	15	12	12	9.0	8.5	26	43	47	4.1	3.5
15	13	11	15	10	12	9.5	15	27	34	52	3.8	3.2
16	13	9.0	15	12	12	9.0	15	30	29	75	3.5	2.9
17	12	9.0	15	13	12	8.5	16	35	24	23	3.8	3.2
18	11	9.0	15	13	12	8.0	25	28	19	16	5.1	2.9
19	11	9.0	15	13	12	8.0	52	20	16	14	4.4	2.6
20	11	9.0	16	13	12	8.0	33	17	12	13	4.8	2.6
21	11	9.0	16	13	10	8.5	22	18	14	12	4.1	2.4
22	11	9.0	16	13	10	8.0	20	19	18	10	4.4	2.4
23	12	10	16	13	9.5	8.0	27	21	17	9.5	4.4	2.4
24	12	10	15	13	9.5	7.5	43	26	16	9.0	3.8	2.4
25	12	10	15	12	9.0	7.0	66	27	18	8.5	3.8	2.6
26	13	10	15	11	9.5	5.4	62	29	17	8.0	3.5	2.9
27	13	11	15	12	10	4.8	54	34	16	8.0	3.2	2.4
28	13	12	15	14	10	5.4	45	52	16	7.0	2.6	2.1
29	13	12	15	13	---	5.4	70	55	14	6.0	2.4	2.1
30	13	12	15	13	---	5.1	73	58	11	5.0	2.6	2.1
31	13	---	15	13	---	5.4	---	61	---	8.0	3.5	---
TOTAL	290.9	317.0	448	415	312.5	239.7	731.6	1325	1102	1134.9	150.8	85.4
MEAN	9.38	10.6	14.5	13.4	11.2	7.73	24.4	42.7	36.7	36.6	4.86	2.85
MAX	13	12	16	16	13	10	73	99	74	585	26	4.1
MIN	5.4	9.0	12	10	9.0	4.8	4.1	17	11	4.8	1.2	2.1
AC-FT	577	629	889	823	620	475	1450	2630	2190	2250	299	169

CAL YR 1980 TOTAL 35166.3 MEAN 96.1 MAX 1080 MIN 3.2 AC-FT 69750
WTR YR 1981 TOTAL 6552.8 MEAN 18.0 MAX 585 MIN 1.2 AC-FT 13000

09366500 LA PLATA RIVER AT COLORADO-NEW MEXICO STATE LINE--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--November 1977 to September 1981 (discontinued).

REMARKS.--Chemical data obtained on infrequent schedule from 1970 to 1973 water years.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN DEMAND, CHEM-ICAL (HIGH LEVEL) (MG/L)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./100 ML)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
OCT											
07...	1615	6.2	1750	1484	8.1	10.0	.90	8.9	8	K27	K160
27...	0810	13	1500	1620	8.1	5.0	--	9.9	15	K35	160
NOV											
24...	0900	9.6	1350	1546	8.5	2.0	--	10.9	--	K30	140
JAN											
06...	1100	12	2000	1770	8.7	.0	--	11.5	9	K5	K37
27...	1330	22	1650	1740	8.2	2.0	--	11.1	24	<2	K39
MAR											
03...	1610	10	1650	1740	8.4	8.0	--	9.0	21	K11	30
30...	1440	5.8	1600	1780	8.3	10.0	--	8.7	10	<2	K44
APR											
27...	1700	56	920	986	8.5	19.0	--	7.4	110	60	120
MAY											
26...	1345	30	1210	1290	8.0	19.0	9.0	7.4	17	54	160
JUN											
29...	0740	17	1050	1170	7.8	17.0	--	7.8	21	300	K140
JUL											
27...	1320	8.0	1210	1300	7.9	24.0	--	6.8	21	K60	300
AUG											
24...	0800	3.8	870	1340	7.9	16.0	--	7.7	67	170	640

DATE	HARD-NESS (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)
OCT											
07...	760	160	87	64	1.1	2.7	200	650	42	.3	12
27...	840	180	94	66	1.0	3.3	230	660	43	.3	11
NOV											
24...	730	156	87	61	1.0	3.0	210	610	37	.3	13
JAN											
06...	950	200	110	70	1.0	2.3	210	810	44	.3	12
27...	880	190	98	63	.9	2.1	250	710	44	.3	14
MAR											
03...	930	190	110	75	1.2	2.8	190	820	48	.2	13
30...	970	190	120	76	1.1	2.6	200	790	44	.3	11
APR											
27...	480	96	58	32	.6	1.8	140	360	7.3	.3	8.9
MAY											
26...	660	130	82	48	.9	2.2	180	530	27	.1	8.3
JUN											
29...	570	110	72	43	.8	2.1	170	450	24	.3	7.4
JUL											
27...	640	130	77	55	.9	2.7	150	540	33	.3	11
AUG											
24...	630	130	75	58	1.1	2.6	180	510	36	.3	10

09366500 LA PLATA RIVER AT COLORADO-NEW MEXICO STATE LINE--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)
OCT											
07...	1160	1140	1.5	19.4	.46	.000	.39	.39	.85	.000	.000
27...	1280	1200	1.7	45.3	.86	.030	.47	.50	1.4	.060	.050
NOV											
24...	1190	1090	1.6	28.9	1.3	.090	.30	.39	1.7	.010	.010
JAN											
06...	1440	1380	1.9	46.7	1.3	.080	.68	.76	2.1	.020	.020
27...	1420	1270	1.9	84.3	1.5	.110	3.8	3.90	5.4	.040	.010
MAR											
03...	1380	1370	1.8	37.3	1.3	.090	.45	.54	1.8	.050	.020
30...	1500	1350	2.0	23.5	.80	.110	.54	.65	1.5	.020	.010
APR											
27...	725	649	.99	111	.21	.060	1.5	1.60	1.8	.090	.010
MAY											
26...	1020	937	1.3	82.6	.04	.090	.45	.54	.58	.040	.010
JUN											
29...	913	811	1.2	41.9	.01	.070	.64	.71	.72	.010	.010
JUL											
27...	946	939	1.2	20.4	.09	.190	.43	.62	.71	.010	<.010
AUG											
24...	1020	931	1.3	10.5	.00	.120	.52	.64	.64	.030	.010

DATE	BORON, DIS-SOLVED (UG/L AS B)	IRON, DIS-SOLVED (UG/L AS FE)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C)	CARBON, ORGANIC SUS-PENDED TOTAL (MG/L AS C)	PHYTO-PLANK-TON, TOTAL (CELLS PER ML)	PERI-PHYTON BIOMASS ASH WEIGHT G/SQ M	PERI-PHYTON BIOMASS TOTAL DRY WEIGHT G/SQ M	BIOMASS CHLORO-PHYLL RATIO PERI-PHYTON (UNITS)	CHLOR-A PERI-PHYTON CHROMO-GRAPHIC FLUOROM (MG/M2)	CHLOR-B PERI-PHYTON CHROMO-GRAPHIC FLUOROM (MG/M2)
OCT										
07...	50	20	8.8	.1	330	--	--	--	2.30	.000
27...	90	20	9.3	.4	390	--	--	--	--	--
NOV										
24...	60	30	6.0	.4	--	--	--	--	--	--
JAN										
06...	40	20	--	--	9600	5.12	6.06	202	4.65	1.88
27...	60	20	14	--	--	--	--	--	--	--
MAR										
03...	40	26	5.9	.3	710	--	--	--	--	--
30...	40	20	6.5	.2	930	11.1	13.2	313	6.72	.680
APR										
27...	20	30	3.9	.4	5600	--	--	--	--	--
MAY										
26...	30	23	8.7	.3	340	--	--	--	--	--
JUN										
29...	40	50	5.4	.4	540	3.39	5.20	410	4.41	.470
JUL										
27...	60	30	4.0	.1	2500	--	--	--	--	--
AUG										
24...	50	23	3.8	.2	230	24.5	26.5	840	2.38	.320

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)
OCT				
07...	1615	6.2	8	.13
27...	0810	13	--	--
NOV				
24...	0900	9.0	21	.51
JAN				
06...	1100	12	18	.58
27...	1330	22	93	5.5
MAR				
03...	1610	10	31	.84
30...	1440	5.8	32	.50
APR				
27...	1700	56	--	--
MAY				
26...	1345	30	19	1.5
JUN				
29...	0740	17	--	--
JUL				
27...	1320	8.0	16	.35
AUG				
24...	0800	3.8	46	.47

09366500 LA PLATA RIVER AT COLORADO-NEW MEXICO STATE LINE--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DISSOLVED (UG/L AS AS)	ARSENIC TOTAL IN BOTTOM MATERIAL (UG/G AS AS)	BARIUM, TOTAL RECOVERABLE (UG/L AS BA)	BARIUM, DISSOLVED (UG/L AS BA)	BARIUM, RECOV. FM BOTTOM MATERIAL (UG/G AS BA)	BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE)	BERYLLIUM, DISSOLVED (UG/L AS BE)	BERYLLIUM, RECOV. FM BOTTOM MATERIAL (UG/G)
OCT											
07...	1615	0	1	1	--	100	80	--	0	<1	--
MAR											
03...	1610	10	--	1	--	--	60	--	--	<1	--
MAY											
26...	1345	10	2	1	0	100	60	50	0	<1	0
AUG											
24...	0800	20	--	2	--	--	90	--	--	<1	--

DATE	CADMIUM TOTAL RECOVERABLE (UG/L AS CD)	CADMIUM DISSOLVED (UG/L AS CD)	CADMIUM RECOV. FM BOTTOM MATERIAL (UG/G AS CD)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	CHROMIUM, DISSOLVED (UG/L AS CR)	CHROMIUM, RECOV. FM BOTTOM MATERIAL (UG/G)	COBALT, TOTAL RECOVERABLE (UG/L AS CO)	COBALT, DISSOLVED (UG/L AS CO)	COBALT, RECOV. FM BOTTOM MATERIAL (UG/G AS CO)	COPPER, DISSOLVED (UG/L AS CU)	COPPER, RECOV. FM BOTTOM MATERIAL (UG/G AS CU)
OCT											
07...	0	<1	--	0	0	--	0	<3	--	<10	--
MAR											
03...	--	<1	--	--	0	--	--	<3	--	<10	--
MAY											
26...	1	<1	0	10	10	10	0	<3	0	12	11
AUG											
24...	--	<1	--	--	10	--	--	<3	--	13	--

DATE	LEAD, TOTAL RECOVERABLE (UG/L AS PB)	LEAD, DISSOLVED (UG/L AS PB)	LEAD, RECOV. FM BOTTOM MATERIAL (UG/G AS PB)	LITHIUM TOTAL RECOVERABLE (UG/L AS LI)	LITHIUM DISSOLVED (UG/L AS LI)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	MANGANESE, DISSOLVED (UG/L AS MN)	MANGANESE, RECOV. FM BOTTOM MATERIAL (UG/G)	MERCURY TOTAL RECOVERABLE (UG/L AS HG)	MERCURY DISSOLVED (UG/L AS HG)	MERCURY RECOV. FM BOTTOM MATERIAL (UG/G AS HG)
OCT											
07...	0	<10	--	30	33	30	12	--	.0	.0	--
MAR											
03...	--	<10	--	--	35	--	54	--	--	.0	--
MAY											
26...	4	2	10	20	33	20	10	130	.1	.0	.03
AUG											
24...	--	13	--	--	36	--	22	--	--	.0	--

DATE	MOLYBDENUM, TOTAL RECOVERABLE (UG/L AS MO)	MOLYBDENUM, DISSOLVED (UG/L AS MO)	MOLYBDENUM, RECOV. FM BOTTOM MATERIAL (UG/G)	NICKEL, TOTAL RECOVERABLE (UG/L AS NI)	NICKEL, DISSOLVED (UG/L AS NI)	NICKEL, RECOV. FM BOTTOM MATERIAL (UG/G AS NI)	SELENIUM, TOTAL (UG/L AS SE)	SELENIUM, DISSOLVED (UG/L AS SE)	SELENIUM, TOTAL IN BOTTOM MATERIAL (UG/G)	STRONTIUM, DISSOLVED (UG/L AS SR)	VANADIUM, DISSOLVED (UG/L AS V)
OCT											
07...	3	<10	--	3	0	--	2	3	--	980	<3.0
MAR											
03...	--	<10	--	--	1	--	--	5	--	1100	<3.0
MAY											
26...	8	<10	0	7	3	10	2	2	0	810	<6.0
AUG											
24...	--	<10	--	--	0	--	--	2	--	840	<6.0

DATE	ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	ZINC, DISSOLVED (UG/L AS ZN)	ZINC, RECOV. FM BOTTOM MATERIAL (UG/G AS ZN)	GROSS ALPHA, DISSOLVED (PCI/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (PCI/L AS U-NAT)	GROSS ALPHA, DISSOLVED (UG/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT)	GROSS BETA, DISSOLVED (PCI/L AS CS-137)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137)	GROSS BETA, DISSOLVED (PCI/L AS SR/YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/YT-90)
OCT											
07...	20	<3	--	<14	<.3	<20	<.4	<8.8	.6	<8.4	.6
MAR											
03...	--	17	--	--	--	--	--	--	--	--	--
MAY											
26...	10	5	8	15	.3	<22	<.4	<9.3	.5	<9.0	.5
AUG											
24...	--	21	--	--	--	--	--	--	--	--	--

09366500 LA PLATA RIVER AT COLORADO-NEW MEXICO STATE LINE--Continued

PHYTOPLANKTON ANALYSES, OCTOBER 1980 TO AUGUST 1981

DATE	OCT 7,80		OCT 27,80		NOV 24,80		JAN 6,81		MAR 3,81		MAR 30,81	
TIME	1615		0810		0900		1100		1610		1440	
TOTAL CELLS/ML	330		390		150		9600		710		930	
DIVERSITY: DIVISION	0.5		0.8		0.4		1.0		0.3		0.5	
.CLASS	0.5		0.8		0.4		1.0		0.3		1.3	
..ORDER	0.6		1.1		0.4		1.1		0.3		1.9	
...FAMILY	2.3		2.5		2.5		1.8		2.4		2.8	
....GENUS	2.3		2.7		2.5		1.9		2.4		2.8	
ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)												
.CHLOROPHYCEAE												
..CHLOROCOCCALES												
...OOCYSTACEAE												
....ANKISTRODESMUS	--	-	--	-	--	-	--	-	--	-	--	-
....DICTYOSPHAERIUM	--	-	--	-	--	-	--	-	--	-	--	-
...SCENEDESMACEAE												
....CRUCIGENIA	--	-	52	13	--	-	--	-	--	-	--	-
....SCENEDESMUS	26	8	26	7	--	-	--	-	--	-	--	-
..ULOTRICHALES												
...CHAETOPHORACEAE												
....STIGEOCLONIUM	--	-	--	-	--	-	--	-	--	-	--	-
..VOLVOCALES												
...CHLAMYDOMONADACEAE												
....CHLAMYDOMONAS	13	4	13	3	--	-	--	-	39	5	51	6
CHRYSOPHYTA												
.BACILLARIOPHYCEAE												
..CENTRALES												
...COSCINODISCACEAE												
....CYCLOTELLA	--	-	13	3	--	-	150	2	--	-	--	-
....STEPHANODISCUS	--	-	--	-	--	-	--	-	--	-	280#	31
..PENNALES												
...ACHNANTHACEAE												
....ACHNANTHES	64#	19	52	13	13	8	*	0	--	-	39	4
....COCCONEIS	--	-	--	-	--	-	*	0	--	-	--	-
....RHOICOSPHENIA	--	-	--	-	--	-	--	-	--	-	--	-
...CYMBELLACEAE												
....CYMBELLA	130#	38	77#	20	13	8	840	9	120#	16	26	3
....EPITHEMIA	--	-	--	-	--	-	--	-	--	-	--	-
...DIATOMACEAE												
....DIATOMA	--	-	--	-	13	8	--	-	--	-	--	-
...FRAGILARIACEAE												
....FRAGILARIA	--	-	--	-	39#	25	--	-	--	-	--	-
....SYNEDRA	--	-	--	-	--	-	110	1	13	2	13	1
...GOMPHONEMATACEAE												
....GOMPHONEMA	--	-	--	-	--	-	190	2	140#	20	--	-
...NAVICULACEAE												
....GYROSIGMA	--	-	--	-	--	-	--	-	--	-	--	-
....NAVICULA	39	12	120#	30	13	8	420	4	39	5	90	10
....PINNULARIA	--	-	--	-	--	-	*	0	--	-	--	-
...NITZSCHIACEAE												
....HANTZSCHIA	--	-	--	-	--	-	--	-	--	-	--	-
....NITZSCHIA	64#	19	39	10	52#	33	1800#	19	100	15	51	6
...SURIRELLACEAE												
....SURIRELLA	--	-	--	-	--	-	150	2	260#	36	120	13
.CHRYSOPHYCEAE												
..CHRYSOMONADALES												
...OCHROMONADACEAE												
....DINOBRYON	--	-	--	-	--	-	--	-	--	-	230#	25
CRYPTOPHYTA (CRYPTOMONADS)												
.CRYPTOPHYCEAE												
..CRYPTOMONADALES												
...CRYPTOCHRYSIDACEAE												
....CHROOMONAS	--	-	--	-	--	-	--	-	--	-	--	-
...CRYPTOMONADACEAE												
....CRYPTOMONAS	--	-	--	-	13	8	--	-	--	-	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)												
.CYANOPHYCEAE												
..HORMOGONALES												
...OSCILLATORIACEAE												
....OSCILLATORIA	--	-	--	-	--	-	5900#	61	--	-	--	-
EUGLENOPHYTA (EUGLENOIDS)												
.EUGLENOPHYCEAE												
..EUGLENALES												
...EUGLENACEAE												
....EUGLENA	--	-	--	-	--	-	--	-	--	-	26	3
....TRACHELOMONAS	--	-	--	-	--	-	--	-	--	-	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

09366500 LA PLATA RIVER AT COLORADO-NEW MEXICO STATE LINE--Continued

PHYTOPLANKTON ANALYSES, OCTOBER 1980 TO AUGUST 1981

DATE TIME	APR 27,81 1700	MAY 26,81 1345	JUN 29,81 0740	JUL 27,81 1320	AUG 24,81 0800
TOTAL CELLS/ML	5600	340	540	2500	230
DIVERSITY: DIVISION	0.7	0.4	0.0	0.4	0.0
.CLASS	0.7	0.4	0.0	0.4	0.0
..ORDER	1.1	0.6	0.0	0.8	0.0
...FAMILY	2.9	1.7	2.0	0.8	0.0
....GENUS	3.2	1.7	2.0	1.9	2.3

ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)										
.CHLOROPHYCEAE										
..CHLOROCOCCALES										
...OOCYSTACEAE										
....ANKISTRODESMUS	47	1	--	-	--	-	23	1	--	-
....DICTYOSPHAERIUM	47	1	--	-	--	-	--	-	--	-
...SCENEDESMACEAE										
....CRUCIGENIA	--	-	--	-	--	-	--	-	--	-
....SCENEDESMUS	--	-	--	-	--	-	--	-	--	-
..ULOTHRICHALES										
...CHAETOPHORACEAE										
....STIGEOCLONIUM	230	4	--	-	--	-	--	-	--	-
..VOLVOCALES										
...CHLAMYDOMONADACEAE										
....CHLAMYDOMONAS	93	2	--	-	--	-	23	1	--	-
CHRYSOPHYTA										
.BACILLARIOPHYCEAE										
..CENTRALES										
...COSCINODISCACEAE										
....CYCLOTELLA	370	7	13	4	--	-	190	8	--	-
....STEPHANODISCUS	--	-	--	-	--	-	--	-	--	-
..PENNALES										
...ACHNANTHACEAE										
....ACHNANTHES	1900#	34	--	-	26	5	70	3	--	-
....COCCONEIS	--	-	--	-	--	-	--	-	--	-
....RHOICOSPHENIA	190	3	--	-	--	-	23	1	--	-
...CYMBELLACEAE										
....CYMBELLA	790	14	64#	19	52	10	93	4	43#	19
....EPITHEMIA	47	1	--	-	--	-	--	-	--	-
...DIATOMACEAE										
....DIATOMA	47	1	--	-	--	-	--	-	--	-
...FRAGILARIACEAE										
....FRAGILARIA	--	-	--	-	--	-	--	-	--	-
....SYNEDRA	93	2	13	4	230#	43	--	-	43#	19
...GOMPHONEMATACEAE										
....GOMPHONEMA	93	2	--	-	--	-	160	7	29	13
...NAVICULACEAE										
....GYROSIGMA	47	1	--	-	--	-	--	-	--	-
....NAVICULA	790	14	13	4	130#	24	70	3	--	-
....PINNULARIA	--	-	--	-	--	-	--	-	--	-
...NITZSCHIACEAE										
....HANTZSCHIA	--	-	--	-	--	-	23	1	--	-
....NITZSCHIA	280	5	210#	62	100#	19	1700#	68	57#	25
...SURIRELLACEAE										
....SURIRELLA	330	6	--	-	--	-	23	1	57#	25
.CHRYSOPHYCEAE										
..CHRYSOMONADALES										
...OCHROMONADACEAE										
....DINOBRYON	--	-	--	-	--	-	--	-	--	-
CRYPTOPHYTA (CRYPTOMONADS)										
.CRYPTOPHYCEAE										
..CRYPTOMONADALES										
...CRYPTOCHRYSIDACEAE										
....CHROOMONAS	--	-	--	-	--	-	93	4	--	-
...CRYPTOMONADACEAE										
....CRYPTOMONAS	--	-	26	8	--	-	--	-	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)										
.CYANOPHYCEAE										
..HORMOGONALES										
...OSCILLATORIACEAE										
....OSCILLATORIA	190	3	--	-	--	-	--	-	--	-
EUGLENOPHYTA (EUGLENOIDS)										
.EUGLENOPHYCEAE										
..EUGLENALES										
...EUGLENACEAE										
....EUGLENA	--	-	--	-	--	-	--	-	--	-
....TRACHELOMONAS	47	1	--	-	--	-	--	-	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

09370820 MANCOS RIVER BELOW JOHNSON CANYON, NEAR CORTEZ, CO

LOCATION.--Lat 37°05'57", long 108°27'56", in NE¼ sec.15, T.33 N., R.15 W., Montezuma County, Hydrologic Unit 14080107, on right bank downstream from bridge, 600 ft (183 m) downstream from Johnson Canyon, 16 mi (26 km) southeast of Towac, and 18 mi (29 km) southeast of Cortez.

DRAINAGE AREA.--320 mi² (829 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1979 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 5,670 ft (1,728 m), from topographic map.

REMARKS.--Records good except those for winter period, which are fair. Flow regulated by Jackson Gulch Reservoir, capacity 10,000 acre-ft (12.3 hm³) 20 mi (32 km) upstream on Jackson Canyon. Reservoir is fed by water diverted from the West Mancos River. Diversions for irrigation of about 12,000 acres (49 km²) above station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,020 ft³/s (85.5 m³/s) July 13, 1981, gage height, 7.62 ft (2.323 m) present site and datum, from rating curve extended above 263 ft³/s (7.4 m³/s), on basis of slope-area measurement of peak flow; minimum daily, 4.1 ft³/s (0.12 m³/s) May 15, 1981.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,020 ft³/s (85.5 m³/s) at 0330 July 13, gage height, 7.62 ft (2.323 m); minimum daily, 4.1 ft³/s (0.12 m³/s) May 15.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	23	18	18	9.5	14	16	7.9	20	14	10	11
2	18	22	16	17	10	16	14	6.8	18	24	8.8	10
3	17	21	18	15	12	21	16	6.6	20	16	8.5	10
4	17	21	18	16	11	18	18	17	34	13	8.5	31
5	17	21	18	16	11	15	16	11	18	11	8.2	40
6	17	21	19	14	12	14	15	8.5	16	10	7.6	32
7	16	21	21	12	13	14	16	7.0	14	9.1	7.3	12
8	16	21	19	13	13	14	18	7.0	18	9.1	7.6	15
9	16	21	16	13	16	13	17	6.8	15	60	8.2	16
10	16	21	16	14	14	13	18	6.8	12	192	9.4	14
11	15	20	16	15	14	15	18	6.6	10	33	11	15
12	14	19	17	15	9.4	18	21	6.1	9.1	224	25	13
13	14	20	18	13	14	16	22	5.5	9.4	930	15	16
14	17	23	14	12	14	18	20	4.6	8.5	301	13	81
15	38	21	15	12	16	23	22	4.1	7.6	203	13	21
16	28	20	17	14	14	20	29	4.8	7.6	146	12	18
17	24	18	18	18	14	18	27	7.6	7.3	77	22	17
18	21	17	18	13	14	15	30	7.9	6.6	41	30	16
19	19	16	18	13	13	14	43	6.6	6.8	32	19	16
20	22	16	17	12	13	14	30	5.9	7.3	26	18	16
21	23	18	18	12	10	14	24	5.9	7.0	24	15	16
22	23	20	18	11	11	15	20	6.8	6.3	20	16	17
23	22	22	17	12	11	14	20	6.6	6.1	19	16	17
24	21	20	14	14	11	14	20	6.1	5.7	21	14	18
25	21	17	16	12	11	14	21	5.9	5.7	22	15	18
26	22	18	16	11	13	14	27	5.7	5.7	26	15	17
27	26	18	16	15	13	14	24	5.9	6.3	79	15	16
28	25	16	16	16	15	16	17	6.6	7.3	15	25	16
29	24	19	16	13	---	18	13	11	9.1	14	26	15
30	22	18	16	12	---	18	8.8	15	10	12	13	14
31	23	---	16	12	---	17	---	20	---	11	12	---
TOTAL	632	589	526	425	351.9	491	620.8	240.6	334.4	2634.2	444.1	584
MEAN	20.4	19.6	17.0	13.7	12.6	15.8	20.7	7.76	11.1	85.0	14.3	19.5
MAX	38	23	21	18	16	23	43	20	34	930	30	81
MIN	14	16	14	11	9.4	13	8.8	4.1	5.7	9.1	7.3	10
AC-FT	1250	1170	1040	843	698	974	1230	477	663	5220	881	1160

CAL YR 1980 TOTAL 41409.0 MEAN 113 MAX 868 MIN 10 AC-FT 82130
WTR YR 1981 TOTAL 7873.0 MEAN 21.6 MAX 930 MIN 4.1 AC-FT 15620

09370820 MANCOS RIVER BELOW JOHNSON CANYON, NEAR CORTEZ, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--June 1979 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: June 1979 to current year.
WATER TEMPERATURES: June 1979 to current year.

INSTRUMENTATION.--Water-quality monitor since June 1979.

REMARKS.--Daily maximum and minimum specific conductance available in district office. This station provides equivalent record for station 09370800 located 0.8 mi (0.6 km) upstream, discontinued June 1979.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 2,940 micromhos Aug. 15, 1980; minimum, 269 micromhos June 11, 1980.
WATER TEMPERATURES: Maximum, 33.5°C Aug. 11, 1979; minimum, freezing point on many days during winter months each year.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 2,650 micromhos May 12; minimum, 540 micromhos July 9.
WATER TEMPERATURES: Maximum, 32.0°C June 27; minimum, freezing point many days during November to February.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	HARD-NESS (MG/L AS CACO3)
OCT								
09...	1250	16	1980	--	8.2	14.0	8.1	890
NOV								
17...	1200	17	2020	2030	8.2	1.5	11.0	970
DEC								
19...	1100	22	2100	2120	8.4	1.5	11.1	1000
JAN								
27...	1220	9.7	2380	2480	8.4	.0	11.6	1200
MAR								
03...	1200	23	2350	2520	8.2	6.0	10.0	1100
30...	1320	19	2470	2500	8.4	9.0	9.0	1200
APR								
27...	1440	26	1080	1190	8.5	21.0	7.2	520
MAY								
26...	1200	5.9	2300	2360	8.0	15.5	7.9	1100
JUN								
29...	0910	8.8	2390	2370	7.8	20.0	7.0	1100
JUL								
27...	1100	35	1230	1180	7.2	15.0	7.8	600
AUG								
24...	0930	14	1890	1930	7.9	16.0	7.6	900
SEP								
21...	1300	16	1680	1790	7.7	18.0	7.5	820

DATE	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)
OCT									
09...	160	120	130	1.4	3.4	180	980	15	.2
NOV									
17...	190	120	140	2.0	4.3	210	990	20	.2
DEC									
19...	200	130	140	1.9	3.2	220	990	16	.2
JAN									
27...	230	150	170	2.1	3.4	250	1300	22	.2
MAR									
03...	210	150	170	2.2	3.8	21	1400	26	.2
30...	220	150	190	2.4	4.4	200	1300	31	.3
APR									
27...	110	60	72	1.4	2.5	140	480	8.6	.3
MAY									
26...	180	150	170	2.3	5.3	160	1200	24	.1
JUN									
29...	210	140	180	2.4	4.9	160	1200	24	.2
JUL									
27...	180	37	36	.6	7.1	63	590	4.5	.2
AUG									
24...	180	110	120	1.9	4.2	170	930	16	.2
SEP									
21...	167	99	110	1.9	3.6	170	800	13	.2

09370820 MANCOS RIVER BELOW JOHNSON CANYON NEAR CORTEZ, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)
OCT								
09...	7.6	1530	2.0	66.1	.38	.050	30	20
NOV								
17...	9.7	1610	2.1	73.9	2.2	.050	30	60
DEC								
19...	8.4	1630	2.2	47.7	1.2	.040	40	50
JAN								
27...	7.6	2040	2.7	53.4	.95	.010	50	80
MAR								
03...	6.5	1990	2.7	126	2.6	.020	10	50
30...	6.6	2020	2.7	106	.02	.010	60	50
APR								
27...	6.3	825	1.1	57.9	.15	.010	60	30
MAY								
26...	3.8	1830	2.4	29.3	--	.010	50	50
JUN								
29...	8.7	1860	2.5	44.3	.05	.010	60	40
JUL								
27...	5.8	901	1.2	85.9	.50	.020	30	40
AUG								
24...	10	1470	2.0	55.6	.28	.010	30	32
SEP								
21...	11	1310	1.7	58.0	.10	<.010	18	25

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1790	1830	2000	2130	2360	2380	2320	1670	1980	2150	2150	2150
2	1820	1820	2060	2120	2320	2370	2310	1870	1950	1990	2200	2220
3	1840	1830	2080	2100	2520	2360	2230	2000	1940	1930	2280	2270
4	1860	1850	2040	2150	2460	2530	2110	2030	1880	1980	2320	2280
5	1970	1850	2060	2160	2410	2520	2220	1930	1830	1900	2340	1550
6	1900	1860	2090	2160	2400	2430	2220	2010	1890	1850	2370	1600
7	1910	1860	2050	2120	2330	2390	2150	2100	1930	1830	2370	1840
8	1950	1850	2140	2340	2420	2410	2060	2200	1860	1850	2360	1990
9	1980	1840	2160	2230	2360	2430	1950	2320	1770	1840	2400	1940
10	2000	1840	2190	2090	2320	2440	1900	2450	1820	1580	2410	2000
11	2020	1880	2230	2240	2380	2320	1840	2490	1920	1480	2300	2130
12	2030	1910	2130	2200	2440	2300	1690	2500	2020	1500	1800	2120
13	2080	1900	2020	2160	2290	2460	1540	2400	2080	1580	1710	2100
14	2050	1900	1850	2200	2090	2420	1560	2430	2100	1210	1700	1290
15	1950	1920	1990	2260	2140	2380	1590	2600	2170	1170	1710	1290
16	2010	1950	1990	2320	2110	2530	1530	2520	2290	1200	1740	1440
17	1940	1990	1940	2280	2190	2430	1420	2420	2380	1580	1760	1540
18	1960	2040	1930	2230	2200	2370	1370	2340	2400	1520	1650	1600
19	1960	2030	2050	2200	2240	2340	1310	2320	2470	1790	1760	1640
20	1940	1950	2000	2230	2250	2330	1370	2350	2440	1850	1690	1670
21	1830	1900	2010	2290	2260	2320	1360	2360	2450	1900	1760	1650
22	1780	1900	2060	2350	2300	2370	1470	2290	2450	1940	1820	1590
23	1780	1930	2040	2350	2360	2400	1510	2300	2450	2030	1850	1560
24	1800	1880	2070	2260	2340	2360	1410	2320	2480	2070	1890	1520
25	1830	1870	2120	2240	2300	2330	1380	2310	2500	1950	1920	1550
26	1850	1920	2130	2290	2270	2300	1240	2310	2470	1860	1920	1570
27	1830	2020	2000	2350	2250	2290	1110	2290	2490	1360	1920	1580
28	1860	2040	2010	2340	2310	2300	1180	2270	2510	1840	1950	1610
29	1860	1990	2020	2220	---	2290	1350	2220	2400	1970	1730	1630
30	1850	1970	2080	2190	---	2420	1480	2040	2360	1990	1920	1650
31	1860	---	2100	2340	---	2290	---	1950	---	2100	2050	---

09370820 MANCOS RIVER BELOW JOHNSON CANYON NEAR CORTEZ, CO--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	24.5	14.5	7.5	3.0	6.5	2.0	2.5	.5	.5	.0	11.0	5.0
2	22.0	12.5	7.5	3.0	6.0	1.5	3.5	.5	.5	.0	6.5	5.0
3	21.5	11.5	7.5	3.0	6.5	2.0	3.0	.5	.5	.0	6.5	4.0
4	23.0	10.0	8.5	4.0	6.5	3.0	3.5	.0	1.0	.5	7.5	2.0
5	17.5	9.5	11.5	5.0	6.0	4.0	3.5	.0	1.0	.5	8.0	1.0
6	15.0	9.0	13.5	6.5	6.5	4.5	2.0	.0	1.0	.0	7.5	3.5
7	15.5	9.0	12.5	7.0	7.0	4.5	.5	.0	1.5	.0	7.5	3.0
8	16.5	10.0	13.0	5.0	6.0	2.0	1.0	.0	.5	.0	9.0	2.0
9	18.0	10.5	15.0	4.5	3.5	2.0	1.0	.0	.5	.0	10.0	2.5
10	18.0	10.5	16.0	6.0	2.5	2.0	1.0	.0	2.0	.0	9.0	4.5
11	18.0	10.5	13.5	5.0	2.5	2.0	.5	.0	.5	.0	9.0	4.5
12	18.0	10.5	12.0	4.5	2.5	1.5	1.0	.0	1.5	.0	11.0	3.5
13	15.0	7.5	11.0	4.5	3.0	1.5	1.5	.0	2.5	.0	11.0	4.5
14	10.0	5.5	10.0	3.5	2.5	1.5	.5	.0	2.5	.0	10.0	5.0
15	6.0	3.0	8.5	2.0	3.0	1.5	.5	.0	5.5	.0	12.5	5.5
16	5.5	2.0	6.5	.0	3.0	1.5	1.0	.0	6.0	.0	13.0	6.5
17	5.5	1.0	8.5	1.0	3.5	1.5	1.5	.0	8.0	.0	13.5	6.0
18	4.5	.5	8.0	5.0	4.0	1.5	1.0	.0	9.0	1.5	11.5	5.0
19	4.5	1.0	8.5	5.0	3.5	1.0	1.0	.0	9.5	2.0	10.5	3.5
20	5.0	1.5	9.5	4.5	3.0	.5	1.5	.0	10.0	3.5	7.0	4.0
21	5.5	2.0	8.5	4.0	3.0	.5	1.0	.0	7.0	.5	12.0	2.5
22	6.0	2.5	8.0	2.5	4.0	.5	1.0	.0	8.0	.5	14.0	3.5
23	6.5	3.0	6.5	2.0	4.5	1.0	1.0	.0	9.5	1.0	16.5	5.5
24	7.0	3.5	5.0	1.5	3.5	.5	1.5	.0	9.5	.5	15.0	6.5
25	8.0	4.5	4.0	.5	---	.5	1.0	.0	8.5	.5	15.0	5.0
26	8.5	5.0	4.0	.5	---	.0	.5	.0	5.0	1.5	13.0	6.5
27	9.5	5.0	7.0	1.5	---	.5	.5	.0	6.5	.5	10.5	6.0
28	9.0	3.5	8.0	2.5	---	.5	.5	.0	10.0	1.5	9.5	4.5
29	7.5	3.0	8.5	4.0	---	.5	3.0	.0	---	---	14.0	3.0
30	7.5	3.0	7.5	3.0	---	.5	1.0	.0	---	---	9.0	5.0
31	7.5	3.0	---	---	---	.5	1.0	.0	---	---	13.0	1.5

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	15.5	3.5	23.5	11.0	22.5	11.0	20.0	17.5	26.5	18.0	23.5	15.0
2	12.5	5.0	22.5	13.0	25.5	12.0	25.5	15.5	28.5	17.5	23.5	14.5
3	8.5	5.5	21.5	13.5	17.5	13.5	27.5	16.5	28.0	17.5	26.0	16.0
4	10.5	2.5	20.5	10.0	20.0	10.0	27.5	16.0	28.5	16.0	21.0	16.0
5	15.0	2.5	18.0	9.0	26.5	14.0	29.0	16.0	28.5	16.0	19.0	14.5
6	17.0	4.0	20.5	9.0	28.5	16.0	30.5	17.5	28.5	16.0	19.5	15.0
7	17.5	6.5	20.0	9.0	27.0	15.0	29.5	17.5	28.5	18.0	22.5	15.5
8	17.5	7.0	17.0	8.5	26.5	15.5	30.0	18.5	28.5	18.5	22.5	16.0
9	19.5	6.5	19.5	7.5	26.0	13.5	28.5	11.0	29.5	18.5	23.0	16.0
10	19.5	7.5	21.0	11.0	27.5	13.5	22.5	15.5	24.5	19.0	20.0	15.0
11	19.5	8.0	19.5	10.0	27.5	14.0	28.0	18.0	23.0	17.5	21.5	13.0
12	13.5	8.0	14.0	10.5	27.0	14.0	23.5	16.0	22.0	15.0	22.0	14.5
13	18.5	8.5	15.0	10.5	25.5	15.0	21.5	16.0	23.0	16.0	21.0	13.5
14	15.0	9.0	15.0	11.0	24.0	12.5	24.5	12.5	26.0	15.5	18.5	10.5
15	17.0	9.5	14.0	10.5	22.5	8.5	20.0	12.0	27.5	17.5	20.0	12.0
16	20.5	9.0	13.5	8.5	24.0	9.0	21.0	16.5	25.0	16.5	20.5	14.0
17	21.5	9.0	14.0	9.0	25.0	9.5	22.5	17.5	23.5	15.0	21.5	13.0
18	18.5	11.0	16.0	9.5	25.0	12.0	24.5	16.0	23.0	15.5	22.0	14.0
19	18.0	10.0	18.0	10.0	26.0	11.5	26.5	17.0	22.0	14.5	20.5	12.5
20	15.5	10.0	16.5	9.5	27.5	13.0	27.0	16.5	23.5	15.0	20.5	12.0
21	20.0	8.5	17.0	9.5	27.5	14.5	27.5	16.5	24.5	15.5	21.0	12.5
22	20.5	9.5	17.5	10.0	29.0	15.0	28.5	19.0	22.5	16.5	19.5	11.5
23	21.5	8.5	18.5	11.0	30.0	16.0	29.0	19.5	23.5	14.0	19.5	14.0
24	22.5	9.5	19.0	12.5	28.5	15.0	29.5	19.5	21.0	15.0	21.0	13.5
25	23.0	10.0	18.0	12.5	30.5	18.0	29.5	19.0	20.5	14.0	19.5	12.0
26	21.0	10.5	19.0	13.5	31.0	19.5	26.5	19.0	22.5	14.0	19.0	11.0
27	20.5	11.5	24.0	10.0	32.0	18.0	20.5	11.5	22.5	15.0	18.0	8.5
28	22.0	10.5	20.5	12.5	29.5	20.0	20.5	13.5	24.0	16.0	18.5	9.5
29	23.0	10.5	19.5	11.0	27.5	18.5	21.5	14.0	24.5	16.5	19.5	12.0
30	23.0	9.5	24.0	11.0	28.5	17.0	26.5	14.0	21.5	15.5	16.0	11.0
31	---	---	20.0	13.0	---	---	27.0	17.0	21.5	16.5	---	---

09371000 MANCOS RIVER NEAR TOWAOC, CO

LOCATION.--Lat 37°01'39", long 108°44'27", Ute Indian Reservation, Montezuma County, Hydrologic Unit 14080107, on left bank 700 ft (210 m) upstream from bridge on U.S. Highway 666, 2.0 mi (3.2 km) north of Colorado-New Mexico State line, 6.0 mi (9.7 km) upstream from Aztec Creek, and 12 mi (19 km) south of Towaoc.

DRAINAGE AREA.--550 mi² (1,420 km²), approximately.

PERIOD OF RECORD.--October 1920 to September 1943, February 1951 to current year. Monthly discharge only for some periods, published in WSP 1313.

REVISED RECORDS.--WSP 1733: 1924 (monthly figures only).

GAGE.--Water-stage recorder. Datum of gage is 5,055.98 ft (1,541.063 m), National Geodetic Vertical Datum of 1929. See WSP 1713 or 1733 for history of changes prior to Mar. 11, 1954.

REMARKS.--Records good except those for winter period, which are poor. Diversions for irrigation of about 10,000 acres (40.5 km²) above station. One diversion above station for irrigation of about 100 acres (405,000 m²) below. Flow regulated by Jackson Gulch Reservoir, capacity, 10,000 acre-ft (12.3 hm³) since March 1949. Several observations of specific conductance and water temperature were obtained and are published elsewhere in this report.

AVERAGE DISCHARGE.--53 years, 51.2 ft³/s (1.450 m³/s), 37,090 acre-ft/yr (45.7 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,300 ft³/s (150 m³/s) Oct. 14 1941, gage height, 7.30 ft (2.225 m), present site and datum, from rating curve extended above 200 ft³/s (5.7 m³/s), on basis of slope-area measurement of peak flow; maximum gage height, 8.50 ft (2.591 m) Sept. 6, 1970; no flow at times in most years.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 700 ft³/s (20 m³/s) and maximum (*):

Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)
July 13	1600	*1,790	50.7	5.72	1.743	July 15	0500	1,380	39.1	5.10	1.554

Minimum daily discharge, no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16	21	18	12	8.4	12	13	4.7	9.0	.64	5.4	7.7
2	15	21	18	13	7.0	13	12	3.2	8.0	5.4	4.3	7.0
3	15	21	18	13	9.0	15	11	1.8	7.7	7.7	2.9	7.0
4	14	20	19	12	8.5	18	12	1.4	21	4.1	2.8	20
5	14	20	19	12	9.0	16	14	6.2	18	1.8	1.9	22
6	13	20	18	11	9.5	15	13	5.4	9.8	.07	2.1	22
7	13	20	18	10	9.5	14	13	3.2	6.4	.00	.75	15
8	9.8	20	20	9.8	11	14	13	1.8	6.7	.00	.65	14
9	8.0	20	16	10	10	14	14	1.5	7.7	.00	.31	12
10	8.0	20	14	10	9.0	13	14	1.4	5.4	128	.00	9.8
11	7.7	19	14	11	8.7	15	14	1.4	3.2	30	2.4	8.4
12	7.7	19	15	11	8.4	16	14	1.4	1.0	192	18	8.4
13	7.5	19	15	10	9.0	16	16	1.3	.34	741	13	6.2
14	7.2	18	15	8.7	12	16	17	.99	.19	105	9.4	80
15	18	18	15	9.4	12	17	16	.60	.08	362	7.2	34
16	41	18	16	10	12	21	18	.55	.02	152	6.2	18
17	32	18	16	11	12	19	18	.90	.00	55	5.9	15
18	28	19	16	9.0	12	16	19	2.2	.00	106	19	14
19	24	18	16	9.8	12	11	20	2.8	.00	32	12	13
20	22	18	15	10	11	10	34	1.7	.00	21	10	12
21	24	18	14	8.7	10	11	25	1.2	.00	18	8.7	4.1
22	25	19	14	8.0	9.8	11	19	.71	.00	12	10	4.3
23	25	21	13	7.2	9.4	11	16	1.1	.00	8.4	10	6.4
24	23	20	13	8.4	10	11	16	.85	.00	10	8.0	13
25	22	18	12	8.4	9.8	11	15	.65	.00	10	7.0	12
26	23	18	12	7.7	10	11	16	.75	.00	9.0	7.2	12
27	26	18	13	6.5	12	11	20	1.3	.00	51	7.0	9.8
28	25	18	13	8.0	12	15	17	1.8	.00	22	8.4	6.7
29	24	18	13	8.5	---	18	11	4.3	.00	12	7.7	6.2
30	22	18	13	7.7	---	16	8.7	8.0	.00	9.0	7.7	6.7
31	21	---	12	7.5	---	14	---	8.4	---	6.4	7.7	---
TOTAL	580.9	573	473	299.3	283.0	441	478.7	73.50	104.53	2111.51	213.61	426.7
MEAN	18.7	19.1	15.3	9.65	10.1	14.2	16.0	2.37	3.48	68.1	6.89	14.2
MAX	41	21	20	13	12	21	34	8.4	21	741	19	80
MIN	7.2	18	12	6.5	7.0	10	8.7	.55	.00	.00	.00	4.1
AC-FT	1150	1140	938	594	561	875	950	146	207	4190	424	846

CAL YR 1980 TOTAL 41820.80 MEAN 114 MAX 892 MIN .80 AC-FT 82950
WTR YR 1981 TOTAL 6058.75 MEAN 16.6 MAX 741 MIN .00 AC-FT 12020

09371400 HARTMAN DRAW AT CORTEZ, CO

LOCATION.--Lat 37°19'26", long 108°36'52", in NW¼NE¼ sec.4, T.35 N., R.16 W., Montezuma County, Hydrologic Unit 14080202, on left bank 600 ft (180 m) upstream from mouth, 0.30 mi (0.5 km) upstream from McElmo Fall, and 1.2 mi (1.9 km) southwest of Cortez.

DRAINAGE AREA.--34.0 mi² (88.1 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1978 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 5,900 ft (1,798 m), from topographic map.

REMARKS.--Records good except those for winter period, which are fair. Diversions for irrigation above station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 172 ft³/s (4.87 m³/s) July 12, 1981, gage height, 4.36 ft (1.329 m); minimum daily, 0.28 ft³/s (0.008 m³/s) Apr. 30 to May 3, 1981.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 172 ft³/s (4.87 m³/s) July 12, gage height, 4.36 ft (1.329 m); minimum daily, 0.28 ft³/s (0.008 m³/s) Apr. 30-May 3.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	15	12	7.7	4.8	6.9	5.9	.28	25	9.9	12	5.1
2	14	15	11	6.9	5.0	7.7	5.6	.28	16	14	11	5.4
3	14	15	11	7.2	5.5	8.4	6.3	.28	18	12	12	6.2
4	14	15	10	6.8	5.5	7.7	6.6	5.4	17	11	13	6.3
5	14	15	10	7.0	5.5	6.3	5.7	8.9	15	9.6	11	9.7
6	14	15	17	6.0	6.0	6.4	5.6	5.7	14	8.9	11	14
7	14	15	14	5.5	6.0	7.2	5.4	3.0	12	8.2	10	10
8	12	14	9.9	5.5	6.5	6.0	5.2	3.1	10	7.5	9.0	6.2
9	14	13	9.6	5.5	6.5	6.0	5.1	4.6	9.7	9.2	9.0	5.7
10	15	13	11	6.0	5.9	5.5	5.0	4.5	8.7	27	9.4	8.9
11	16	13	12	6.5	4.0	7.0	5.0	3.5	9.0	22	13	8.2
12	16	13	10	6.6	6.5	6.9	5.2	3.2	9.0	104	67	6.2
13	16	13	7.8	6.2	6.5	6.0	5.1	3.0	8.4	43	28	5.6
14	16	14	8.4	5.0	7.4	5.9	5.0	2.3	8.0	35	20	5.6
15	20	9.7	8.5	5.0	6.9	6.0	6.8	2.5	8.4	30	17	5.6
16	20	8.9	8.0	6.0	6.9	5.5	5.6	12	7.5	32	18	6.4
17	18	12	8.2	5.1	6.8	5.2	5.1	18	7.0	32	16	7.0
18	16	16	7.8	5.5	6.8	4.7	5.2	13	7.0	25	9.9	7.0
19	16	15	7.5	5.5	6.6	4.6	7.0	11	8.2	21	8.2	6.6
20	16	15	7.7	6.0	6.6	5.0	5.4	11	8.2	18	7.2	6.3
21	16	16	7.4	5.5	6.0	5.1	14	12	7.0	17	6.9	7.0
22	16	16	7.2	5.0	6.5	5.0	15	11	8.4	17	7.7	7.7
23	16	15	7.2	5.5	6.6	5.1	4.2	13	8.4	16	7.8	8.2
24	16	13	7.4	5.5	6.4	5.0	3.6	12	5.1	15	6.3	9.6
25	16	12	7.0	5.5	6.4	5.0	3.5	12	4.7	17	6.2	9.9
26	15	12	6.9	5.0	7.7	4.8	3.5	12	6.0	18	5.6	9.7
27	17	13	7.0	7.0	8.4	6.2	3.5	12	5.7	15	5.6	9.9
28	15	12	6.9	6.0	6.9	7.4	3.5	14	5.7	13	5.5	9.0
29	14	12	6.9	5.5	---	7.2	1.4	15	5.9	12	4.8	6.6
30	14	12	7.5	5.5	---	7.4	.28	16	5.9	10	4.3	5.6
31	14	---	7.7	5.0	---	6.6	---	22	---	9.9	4.8	---
TOTAL	478	407.6	280.5	182.5	177.1	189.7	164.28	266.54	288.9	639.2	377.2	225.2
MEAN	15.4	13.6	9.05	5.89	6.33	6.12	5.48	8.60	9.63	20.6	12.2	7.51
MAX	20	16	17	7.7	8.4	8.4	15	22	25	104	67	14
MIN	12	8.9	6.9	5.0	4.0	4.6	.28	.28	4.7	7.5	4.3	5.1
AC-FT	948	808	556	362	351	376	326	529	573	1270	748	447

CAL YR 1980 TOTAL 6146.30 MEAN 16.8 MAX 100 MIN 5.5 AC-FT 12190
WTR YR 1981 TOTAL 3676.72 MEAN 10.1 MAX 104 MIN .28 AC-FT 7290

09371400 HARTMAN DRAW AT CORTEZ, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--April 1978 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: April 1978 to current year.
WATER TEMPERATURES: April 1978 to current year.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 3,640 micromhos Jan. 8, 1980; minimum, 1,000 micromhos Apr. 22, 1981.
WATER TEMPERATURES: Maximum, 29.5°C Aug. 26, 1981; minimum, freezing point on many days during winter period each year.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 3,620 micromhos Feb. 23, 24; minimum, 1,000 micromhos Apr. 22.
WATER TEMPERATURES: Maximum, 29.5°C Aug. 26; minimum, 0.0°C on many days during December to February.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2490	3100	3020	3040	3380	3540	3290	---	1570	1840	---	2510
2	2480	3080	2990	3300	3400	3500	3230	---	1560	2030	1330	2460
3	2500	3070	3030	3070	3410	3490	3140	1120	1550	2060	1660	2290
4	2490	3080	3060	3040	3440	3530	3300	1710	1610	2080	1570	2180
5	2480	3090	3150	3090	3450	3450	3240	1870	1640	2170	1530	2090
6	2460	3090	3230	3080	3420	3360	3200	1890	1680	2230	1470	2080
7	2450	3100	3370	3350	3400	3320	3210	1950	1720	2270	1440	2110
8	2470	3100	3330	3340	3390	3260	3170	1960	1770	2330	1380	2400
9	2360	3100	3280	3330	3350	3160	3130	1800	1790	2270	1410	2520
10	2430	3110	3250	3310	3360	3050	3140	1770	1760	2310	1830	2420
11	2370	3110	3230	3270	3420	3040	3150	1870	1720	2430	2050	2390
12	2350	3120	3230	3290	3350	3130	3100	1890	1670	1860	1930	2430
13	2370	3110	3230	3280	3320	3150	3090	1920	1660	1690	1820	2410
14	2400	3180	3220	3260	3300	3120	3140	2080	1640	1340	2030	2400
15	2710	3140	3200	3250	3330	3140	3060	2000	1620	1270	2050	2390
16	3110	3110	3210	3250	3360	3180	3140	1940	1640	1910	2040	2320
17	3040	2830	3190	3280	3400	3180	3190	2010	1690	1910	2120	2260
18	3030	2910	3190	3260	3440	3150	3170	1920	1720	1800	2420	2230
19	3000	3150	3150	3250	3470	3190	3270	1940	1680	1950	2610	2230
20	2990	3130	3150	3260	3480	3180	3240	1890	1690	1960	2220	2260
21	2960	3120	3110	3250	3510	3180	2060	1890	1690	1860	1810	2220
22	2950	3120	3110	3290	3540	3190	1180	1930	1780	1650	2600	2050
23	2930	3120	3110	3290	3540	3130	1570	1890	1850	1540	2400	2010
24	2900	3070	3100	3270	3570	3130	1890	1890	1750	1590	1790	2000
25	2890	3150	3100	3270	3550	3150	1990	1810	1700	1620	2720	1980
26	2940	3210	3190	3260	3500	3190	2030	1790	1730	1690	2720	1980
27	3010	3200	3100	3190	3530	3010	1970	1790	1860	1650	2700	2040
28	2950	3180	3100	3300	3560	3060	2020	1810	1690	1630	2700	2130
29	2950	3150	3190	3480	---	3340	1460	1850	1920	---	2670	2340
30	3160	3050	3090	3490	---	3310	955	1860	1850	---	2370	2530
31	3130	---	3080	3440	---	3280	---	1860	---	---	2580	---

09371400 HARTMAN DRAW AT CORTEZ, CO--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	12.0	9.0	9.0	4.5	5.0	2.0	3.0	.0	.5	.5	8.0	4.0
2	12.0	9.5	9.0	4.0	4.5	.5	4.5	.0	.5	.5	5.0	3.5
3	11.5	9.0	8.5	3.5	6.0	2.5	3.5	.0	.5	.5	3.0	2.5
4	11.0	8.5	9.5	4.5	5.0	2.0	4.5	.0	.5	.5	7.0	2.5
5	11.0	8.5	10.0	5.5	6.5	4.0	3.5	.5	.5	.5	8.0	2.0
6	10.5	8.5	10.0	5.5	4.5	2.5	2.0	.5	.5	.5	6.0	3.5
7	10.5	9.0	9.5	5.0	5.0	3.0	.5	.5	.5	.5	8.0	2.5
8	11.0	8.5	9.0	4.5	3.5	.5	.5	.5	.5	.5	9.5	1.5
9	16.0	9.5	9.0	4.0	2.0	.0	.5	.5	2.0	.5	9.5	1.5
10	15.5	8.5	9.0	4.5	.5	.0	.5	.5	4.5	.5	9.0	3.5
11	14.5	8.5	9.0	4.0	1.0	.0	1.0	.5	.5	.0	8.0	4.0
12	13.0	9.5	10.0	6.5	2.5	.5	3.5	.5	1.5	.5	8.0	2.0
13	13.5	11.5	9.5	7.5	4.0	1.5	3.5	.5	4.5	.5	7.5	2.0
14	14.0	10.0	8.5	5.0	3.0	.5	1.5	.5	5.5	.5	8.0	3.5
15	11.0	8.0	6.0	2.0	3.5	.5	.5	.5	8.0	2.0	11.0	3.5
16	9.0	6.5	6.0	2.5	4.0	.5	1.5	.5	8.0	1.0	9.5	3.5
17	9.5	5.5	3.5	.5	4.5	.5	4.0	.5	7.5	1.5	10.5	3.0
18	10.0	5.0	2.5	.5	4.5	.5	2.5	.5	9.0	1.5	10.5	1.5
19	10.5	5.0	2.5	.5	3.0	.5	2.0	.5	9.0	1.5	9.0	2.0
20	10.5	5.0	2.5	.5	2.5	.5	2.0	.5	9.0	3.5	6.5	4.0
21	10.0	5.0	3.0	.5	3.0	.5	2.0	.5	5.5	.5	12.0	2.0
22	9.5	5.0	3.0	.5	4.0	.0	2.0	.5	6.5	.5	13.0	2.0
23	8.0	4.0	4.0	.5	4.5	1.5	2.0	.5	8.0	.0	15.5	4.5
24	8.0	2.0	5.5	2.5	2.5	.5	3.5	.5	9.0	.5	14.0	5.5
25	8.0	2.0	4.0	2.0	3.0	.5	2.0	.5	7.5	.5	13.0	3.0
26	7.5	5.0	4.0	.5	3.5	.5	.5	.5	4.0	1.5	12.0	5.0
27	7.5	6.0	1.0	.5	4.0	.5	.5	.5	5.5	.0	11.0	4.0
28	8.5	5.0	4.5	.5	4.0	.0	3.5	.5	9.0	1.5	6.5	3.5
29	8.0	3.0	4.5	.5	4.0	.0	5.5	.5	---	---	12.5	1.0
30	8.5	3.5	5.0	2.0	3.5	.0	1.5	.5	---	---	8.0	4.5
31	9.0	4.0	---	---	3.0	.0	.5	.5	---	---	12.5	1.0

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	14.5	3.0	24.0	13.5	21.5	12.0	20.0	18.0	22.5	17.5	25.0	7.0
2	13.0	4.5	24.5	14.0	22.0	13.5	22.5	15.5	24.5	17.0	24.5	7.0
3	8.5	5.5	23.0	14.0	18.5	14.5	23.0	16.0	22.5	17.0	23.0	9.5
4	12.0	2.5	20.0	12.0	21.5	10.5	23.0	15.5	23.5	16.0	22.0	8.5
5	14.5	1.5	19.0	10.0	23.5	14.0	25.0	16.0	24.0	15.5	17.5	14.0
6	16.5	4.0	17.0	10.5	24.5	16.0	20.0	17.0	24.0	13.5	18.5	13.5
7	10.5	5.5	17.5	7.5	23.5	16.0	25.5	17.5	23.5	12.0	21.0	13.0
8	16.5	6.5	14.5	6.5	24.0	15.5	26.0	17.5	25.5	12.5	24.5	10.0
9	18.5	6.0	16.5	5.0	23.0	15.5	24.0	18.0	26.0	13.0	25.0	17.5
10	19.0	6.5	18.0	7.0	23.5	14.5	23.0	17.0	21.5	14.0	20.5	16.5
11	18.5	7.0	18.0	9.0	23.5	15.0	25.0	18.5	20.5	17.0	23.0	14.5
12	12.0	7.0	13.0	8.5	23.0	14.0	23.5	17.5	21.0	15.5	22.5	16.0
13	19.0	9.0	18.0	9.0	22.5	14.5	21.5	18.0	21.0	16.0	22.0	15.0
14	12.0	8.5	19.0	8.0	20.5	14.0	22.0	17.5	21.0	15.0	22.5	14.5
15	16.5	9.5	14.0	9.0	19.5	15.0	22.0	17.0	22.0	17.0	20.5	14.0
16	21.5	9.0	10.5	8.0	21.5	14.5	21.5	17.0	21.5	16.0	21.0	14.5
17	23.0	9.5	13.5	8.0	22.5	15.5	22.0	17.5	21.5	15.0	21.5	13.5
18	18.0	10.5	18.5	8.0	23.0	15.5	23.0	17.0	21.5	15.5	22.0	14.0
19	18.5	9.5	17.0	11.0	24.0	15.5	24.0	17.0	21.5	15.0	21.5	13.0
20	16.0	9.5	14.0	10.5	25.0	16.5	23.5	16.5	23.5	14.5	21.0	12.5
21	19.0	9.5	15.5	7.5	26.0	16.5	23.5	16.0	23.0	11.5	20.5	13.0
22	18.0	9.5	17.0	9.0	26.5	19.5	23.0	17.5	21.5	16.5	20.0	12.5
23	21.5	8.5	18.5	9.5	25.5	20.0	25.0	18.0	23.0	12.0	17.0	15.0
24	23.0	10.0	20.0	10.5	28.0	18.5	24.5	18.0	23.5	10.0	20.5	14.0
25	23.0	10.5	17.5	11.0	29.0	19.5	22.0	17.0	24.5	8.0	19.0	13.0
26	21.5	10.5	17.5	13.0	28.0	18.0	21.5	17.0	29.5	7.5	18.5	11.5
27	22.0	11.5	20.5	12.5	28.5	21.0	22.5	15.5	27.0	9.5	17.5	10.0
28	24.0	11.5	20.5	14.5	27.5	18.5	21.5	15.0	25.5	9.5	19.0	11.0
29	24.0	12.0	17.5	12.5	24.5	20.5	21.5	15.0	25.5	10.5	18.5	12.5
30	23.0	11.5	20.5	11.5	24.0	17.5	23.0	14.0	26.0	8.5	17.0	12.0
31	---	---	18.0	14.5	---	---	22.5	13.5	22.5	13.0	---	---

09371420 McELMO CREEK ABOVE ALKALI CANYON, NEAR CORTEZ, CO

LOCATION.--Lat 37°19'38", long 108°38'55", in SE¼SE¼ sec.31, T.36 N., R.16 W., Montezuma County, Hydrologic Unit 14080202, on left bank 0.9 mi (1.4 km) upstream from Alkali Canyon and 4.0 mi (6.4 km) southwest of Cortez.

DRAINAGE AREA.--147 mi² (381 km²).

PERIOD OF RECORD.--October 1972 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 5,750 ft (1,753 m), from topographic map.

REMARKS.--Records good except those for period of no gage-height record, which are poor. Diversions from tributaries above station for irrigation. Low flows are mainly return flow from irrigated areas. Water is imported above station from Dolores River basin for irrigation of about 33,000 acres (134 km²) above and below station in Montezuma Irrigation District and for municipal use by city of Cortez. A small amount of water is diverted at times to Mancos River basin. Several observations of specific conductance and water temperature were obtained and are published elsewhere in this report.

AVERAGE DISCHARGE.--9 years, 25.1 ft³/s (0.711 m³/s) 18,180 acre-ft/yr (22.4 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 864 ft³/s (24.5 m³/s) July 15, 1981, gage height, 6.08 ft (1.853 m), from rating curve extended above 190 ft³/s (5.4 m³/s), on basis of step-backwater method; minimum daily, 1.5 ft³/s (0.042 m³/s) Sept. 21, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 864 ft3/s (24.5 m³/s) July 15, gage height, 6.08 ft (1.853 m), from rating curve extended above 190 ft³/s (5.4 m³/s), on basis of step-backwater method; minimum daily, 4.2 ft3/s (0.12 m³/s) May 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19	18	14	14	9.0	8.9	9.3	9.5	61	30	24	8.5
2	19	18	13	15	9.0	12	8.9	4.2	38	35	20	10
3	19	18	15	17	10	17	11	8.3	49	27	20	11
4	19	18	13	16	9.5	14	13	17	47	21	24	12
5	20	17	16	16	9.5	10	9.3	14	38	15	17	32
6	22	17	28	14	11	11	9.3	11	32	12	16	57
7	24	17	38	13	11	14	8.5	5.7	27	9.6	15	27
8	26	17	22	12	12	12	8.2	6.2	21	8.5	14	11
9	27	17	17	13	11	12	7.8	8.5	18	11	13	14
10	27	16	17	14	10	12	7.8	9.6	15	194	18	16
11	27	16	18	15	11	19	7.5	9.3	18	29	24	13
12	27	17	21	17	12	22	8.2	8.5	18	173	90	9.3
13	27	18	18	14	12	15	8.2	11	18	245	69	8.5
14	27	22	15	12	12	15	8.2	7.8	15	96	48	29
15	27	20	16	13	12	15	12	7.3	18	185	42	8.9
16	27	17	16	14	12	13	10	27	22	146	42	8.9
17	27	14	15	15	12	16	9.3	43	21	102	37	9.6
18	27	14	15	13	10	16	13	32	23	67	22	10
19	27	14	16	12	9.6	16	16	24	24	54	17	9.6
20	27	15	15	12	9.6	18	10	25	25	44	14	9.3
21	29	15	15	12	8.2	18	28	30	23	41	14	11
22	30	15	17	11	7.0	16	37	27	26	30	15	20
23	30	14	16	10	21	15	15	29	20	29	18	16
24	30	14	15	12	9.3	16	17	28	12	23	9.6	20
25	24	15	14	12	7.5	15	18	27	10	27	9.6	18
26	18	14	15	11	8.9	16	12	25	15	28	8.5	18
27	23	14	16	13	9.6	21	11	24	13	27	7.8	16
28	18	15	15	10	8.5	27	9.6	28	13	22	9.6	14
29	18	16	15	9.5	---	20	7.4	42	14	21	8.5	8.5
30	18	15	15	9.5	---	14	5.3	46	13	19	7.8	6.8
31	18	---	16	9.0	---	11	---	41	---	18	8.2	---
TOTAL	748	487	527	400.0	294.2	476.9	355.8	631.9	707	1787.1	702.6	462.9
MEAN	24.1	16.2	17.0	12.9	10.5	15.4	11.9	20.4	23.6	57.6	22.7	15.4
MAX	30	22	38	17	21	27	37	46	61	245	90	57
MIN	18	14	13	9.0	7.0	8.9	5.3	4.2	10	8.5	7.8	6.8
AC-FT	1480	966	1050	793	584	946	706	1250	1400	3540	1390	918

CAL YR 1980 TOTAL 12865.0 MEAN 35.2 MAX 200 MIN 10 AC-FT 25520
WTR YR 1981 TOTAL 7580.4 MEAN 20.8 MAX 245 MIN 4.2 AC-FT 15040

NOTE.--NO GAGE-HEIGHT RECORD DEC. 19 TO JAN. 27.

09371495 MUD CREEK NEAR CORTEZ, CO

LOCATION.--Lat 37°19'10", long 108°40'03", in SE¼NE¼ sec.1, T.35 N., R.17 W., Montezuma County, Hydrologic Unit 14080202, on right bank 0.4 mi (0.6 km) upstream from mouth, and 4 mi (6.4 km) southwest of Cortez.

DRAINAGE AREA.--33.6 mi^2 (87.0 km^2).

PERIOD OF RECORD.--April 1978 to September 1981 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 5,740 ft (1,750 m), from topographic map.

REMARKS.--Records good except those for winter period, which are fair. Several small diversions above station for irrigation of hay meadows above and below gage. Most of flow is return flow from irrigated areas. Several observations of specific conductance and water temperature were obtained and are published elsewhere in this report.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 277 ft^3/s (7.84 m^3/s) May 27, 1979, gage height, 5.26 ft (1.603 m); maximum gage height, 7.40 ft (2.256 m) Jan. 18, 1979, backwater from ice; minimum daily discharge, 0.20 ft^3/s (0.006 m^3/s) Apr. 26-28, May 5, 1981.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 53 ft^3/s (1.50 m^3/s) July 12, gage height, 6.51 ft (1.984 m); minimum daily, 0.20 ft^3/s (0.006 m^3/s) Apr. 26-28, May 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.5	3.1	3.2	3.3	2.0	2.6	2.1	.53	32	10	.89	4.5
2	5.4	2.9	3.3	3.2	2.1	2.9	2.1	3.1	14	19	3.2	5.0
3	5.0	3.1	3.8	3.2	2.3	3.4	2.3	4.3	20	15	2.0	5.6
4	5.3	2.7	3.6	3.1	2.3	2.8	2.4	1.4	28	12	3.7	5.9
5	4.9	2.6	3.4	2.8	2.3	2.5	2.0	.20	23	9.4	3.6	7.6
6	4.7	2.7	4.5	2.9	2.6	2.5	2.0	.27	18	8.4	3.6	6.1
7	4.9	2.7	4.1	2.2	2.6	2.7	2.0	.56	16	6.7	4.2	8.5
8	5.1	2.7	3.2	2.2	2.7	2.5	2.0	.31	19	5.4	4.9	5.8
9	4.8	2.7	3.0	2.3	2.5	2.4	1.9	.60	17	5.9	4.5	4.6
10	4.6	2.7	3.1	2.4	2.5	2.4	1.9	2.9	17	13	5.6	6.2
11	4.8	2.7	3.2	2.5	2.5	3.2	2.0	4.2	17	14	7.9	6.6
12	4.8	2.7	3.2	2.8	2.5	3.7	1.9	6.3	15	33	29	5.1
13	4.8	2.8	3.1	2.5	2.5	2.9	2.0	7.4	12	28	19	4.8
14	4.8	2.8	3.0	2.2	2.5	2.9	1.9	2.6	5.1	30	18	4.7
15	5.1	2.7	2.6	2.1	2.6	2.6	2.1	2.7	1.5	17	15	4.7
16	5.1	2.7	2.9	2.4	2.5	2.1	2.1	12	3.1	17	14	4.5
17	4.6	2.5	3.1	2.5	2.4	2.3	2.0	19	4.0	16	14	4.9
18	4.2	2.7	2.5	2.6	2.3	2.1	2.1	15	4.2	16	6.6	5.0
19	4.0	2.9	2.9	2.6	2.2	2.1	2.2	13	4.4	12	4.2	5.0
20	4.0	2.9	2.9	2.7	2.4	2.5	2.2	13	4.1	11	2.9	4.9
21	4.0	2.9	3.0	2.6	2.3	3.1	2.6	13	3.9	8.5	1.8	4.9
22	4.0	2.8	2.7	2.1	2.2	2.9	2.7	11	3.4	10	2.2	5.4
23	4.2	2.4	2.7	2.3	2.2	2.8	2.6	9.4	3.1	9.6	4.0	6.3
24	4.0	3.1	2.6	2.5	2.4	2.7	2.9	6.2	3.4	11	6.3	7.1
25	3.8	3.0	2.8	2.3	2.4	2.5	3.1	2.1	3.5	9.8	6.0	6.6
26	3.7	2.5	2.7	2.1	3.1	2.1	.20	6.0	3.6	11	5.4	6.4
27	4.6	2.4	2.7	2.3	2.9	2.1	.20	13	2.9	10	5.0	6.3
28	3.6	2.4	2.7	2.5	2.7	2.5	.20	16	1.2	6.6	8.8	5.8
29	3.2	2.5	2.7	2.5	---	3.1	.23	23	1.6	5.5	8.0	4.7
30	3.2	2.8	2.9	2.4	---	2.8	.29	28	2.8	6.0	1.5	3.9
31	3.2	---	3.1	2.2	---	2.4	---	25	---	4.7	3.9	---
TOTAL	137.9	82.1	95.2	78.3	68.5	82.1	56.22	262.07	303.8	391.5	219.69	167.4
MEAN	4.45	2.74	3.07	2.53	2.45	2.65	1.87	8.45	10.1	12.6	7.09	5.58
MAX	5.5	3.1	4.5	3.3	3.1	3.7	3.1	28	32	33	29	8.5
MIN	3.2	2.4	2.5	2.1	2.0	2.1	.20	.20	1.2	4.7	.89	3.9
AC-FT	274	163	189	155	136	163	112	520	603	777	436	332

CAL YR 1980 TOTAL 2529.30 MEAN 6.91 MAX 98 MIN 1.0 AC-FT 5020
WTR YR 1981 TOTAL 1944.78 MEAN 5.33 MAX 33 MIN .20 AC-FT 3860

09371700 McELMO CREEK BELOW CORTEZ, CO

LOCATION.--Lat 37°20'26", long 108°48'19", in NW¼NW¼ sec.35, T.36 N., R.18 W., Montezuma County, Hydrologic Unit 14080202, on left bank 100 ft (30 m) downstream from bridge on State Highway 32, 150 ft (46 m) downstream from Sand Canyon, and 11.7 mi (18.8 km) west of Cortez.

DRAINAGE AREA.--283 mi^2 (733 km^2).

PERIOD OF RECORD.--October 1972 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 5,430 ft (1,655 m), from topographic map.

REMARKS.--Records good except those for winter period, which are fair. Diversions above station by Black Dike ditch for irrigation of 310 acres (1.25 km^2) above station and Rock Creek ditch for irrigation of 650 acres (2.63 km^2) below station. Low flows are mainly return flows from irrigated areas. Water is imported above station from Dolores River basin for irrigation of about 33,000 acres (134 km^2) above and below station in Montezuma Irrigation District and for municipal use by city of Cortez. A small amount of water is diverted at times to Mancos River basin. Several observations of specific conductance and water temperature were obtained and are published elsewhere in this report.

AVERAGE DISCHARGE.--9 years, 38.5 ft^3/s (1.090 m^3/s), 27,890 acre-ft/yr (34.4 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,130 ft^3/s (60.3 m^3/s) July 19, 1977, gage height, 8.96 ft (2.731 m), from floodmarks, from rating curve extended above 400 ft^3/s (11 m^3/s), on basis of step-backwater method; minimum daily, 0.04 ft^3/s (0.001 m^3/s) Sept. 9, 1974.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 756 ft^3/s (21.4 m^3/s) at 2400 July 11, gage height, 5.78 ft (1.762 m); minimum daily, 2.2 ft^3/s (0.062 m^3/s) Apr. 10-14.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20	32	30	25	15	20	13	6.1	130	35	35	14
2	20	28	28	27	16	21	13	4.3	75	76	32	9.0
3	20	32	30	28	19	30	17	4.8	60	48	28	7.5
4	20	32	28	27	18	27	23	9.8	77	35	26	6.0
5	20	25	30	25	18	23	19	4.6	53	23	24	12
6	20	31	37	23	18	31	11	4.5	45	20	24	32
7	20	31	52	20	20	32	2.5	3.8	39	15	25	20
8	21	31	38	20	17	30	2.4	4.0	30	12	30	13
9	22	31	30	20	25	23	2.4	4.6	29	23	32	11
10	23	31	26	22	23	23	2.2	5.9	28	274	35	12
11	27	32	27	23	13	31	2.2	7.0	20	146	63	22
12	29	33	28	25	24	44	2.2	8.4	20	416	100	30
13	30	36	31	22	23	30	2.2	14	22	335	75	34
14	30	43	24	19	23	27	2.2	7.6	19	154	60	55
15	36	38	24	18	25	28	2.6	6.1	19	258	50	44
16	50	30	28	21	24	26	3.8	26	33	210	70	34
17	68	27	28	24	23	23	3.5	60	33	172	50	26
18	50	30	28	19	22	23	3.4	44	26	136	30	18
19	45	28	29	20	22	22	2.7	31	23	109	20	14
20	36	28	28	20	21	22	2.8	33	23	98	15	11
21	30	29	29	18	19	25	14	42	17	81	13	10
22	29	32	29	17	19	24	27	32	17	54	12	12
23	28	40	28	18	23	22	28	32	14	44	7.3	82
24	28	49	28	20	24	22	13	49	9.5	39	5.2	44
25	25	47	27	20	18	20	10	29	6.3	40	5.5	38
26	21	43	28	17	19	19	7.0	23	7.6	42	6.8	16
27	24	34	27	20	24	20	5.9	28	11	44	6.8	14
28	19	27	28	23	21	26	3.8	42	8.4	37	12	14
29	15	34	28	18	---	30	6.6	56	10	35	16	14
30	19	31	27	18	---	24	6.1	100	14	47	24	13
31	33	---	28	17	---	20	---	100	---	30	20	---
TOTAL	878	995	911	654	576	788	254.5	822.5	918.8	3088	952.6	681.5
MEAN	28.3	33.2	29.4	21.1	20.6	25.4	8.48	26.5	30.6	99.6	30.7	22.7
MAX	68	49	52	28	25	44	28	100	130	416	100	82
MIN	15	25	24	17	13	19	2.2	3.8	6.3	12	5.2	6.0
AC-FT	1740	1970	1810	1300	1140	1560	505	1630	1820	6130	1890	1350

CAL YR 1980 TOTAL 20414.0 MEAN 55.8 MAX 384 MIN 15 AC-FT 40490
WTR YR 1981 TOTAL 11519.9 MEAN 31.6 MAX 416 MIN 2.2 AC-FT 22850

09372000 McELMO CREEK NEAR COLORADO-UTAH STATE LINE

LOCATION.--Lat 37°19'27", long 109°00'54", in NE¼ sec.2, T.35 N., R.20 W., Montezuma County, Hydrologic Unit 14080202, on right bank 1.5 mi (2.4 km) upstream from Colorado-Utah State line, 2.0 mi (3.2 km) upstream from Yellowjacket Creek, and 2.0 mi (3.2 km) west of former town of McElmo.

DRAINAGE AREA.--346 mi^2 (896 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--March 1951 to current year.

REVISED RECORDS.--WSP 1925: 1951-52(M), 1957(M). WRD Colo. 1972: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 4,890 ft (1,490 m), from topographic map.

REMARKS.--Records good. Diversions for irrigation of about 1,780 acres (7.20 km^2) above station. One diversion above station for irrigation of about 60 acres (243,000 m^2) below. Part of flow is return water from irrigated lands of Montezuma Irrigation District (water imported from Dolores River basin).

AVERAGE DISCHARGE.--30 years, 45.6 ft^3/s (1.291 m^3/s), 33,040 acre-ft/yr (40.7 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,040 ft^3/s (86.1 m^3/s) Aug. 7, 1967, gage height, 7.58 ft (2.310 m), from floodmark in gage well, from rating curve extended above 2,100 ft^3/s (59 m^3/s); maximum gage height, 8.13 ft (2.478 m) Sept. 6, 1970; minimum daily discharge, 0.08 ft^3/s (0.002 m^3/s) Sept. 9, 10, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 620 ft^3/s (18 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
July 10	1430	840	23.8	5.80	1.768	July 15	0930	715	20.2	5.58	1.701
July 12	0500	*986	27.9	6.05	1.844	Sept.23	2000	701	19.9	5.43	1.655
July 13	1830	624	17.7	5.39	1.643						

Minimum daily discharge, 1.7 ft^3/s (0.048 m^3/s) Apr. 19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	33	36	28	25	18	22	19	8.0	126	23	33	20
2	33	36	27	28	17	24	15	9.7	92	89	28	15
3	33	35	28	32	22	33	18	10	78	64	25	12
4	33	34	26	29	20	29	23	15	104	49	20	8.5
5	37	33	28	30	20	24	21	11	78	36	20	14
6	39	32	36	25	20	28	18	7.5	68	28	15	45
7	46	33	62	24	21	34	15	7.0	60	24	15	42
8	46	33	42	23	20	30	15	5.0	49	17	20	28
9	47	32	30	24	26	28	13	7.0	37	17	20	27
10	46	32	25	26	28	23	12	7.5	34	257	21	25
11	40	32	25	28	14	30	9.7	8.5	25	143	22	40
12	39	32	28	30	26	37	7.5	12	26	413	118	39
13	44	35	36	25	26	29	7.0	15	30	338	92	43
14	42	43	26	21	26	34	7.5	19	29	172	68	73
15	56	39	27	23	28	28	7.0	14	30	285	50	64
16	70	32	28	24	26	25	5.5	14	32	228	80	53
17	102	27	28	28	26	24	2.8	73	43	155	59	54
18	84	28	29	22	24	23	1.9	68	37	141	36	50
19	78	28	30	21	24	22	1.7	49	35	109	24	44
20	67	29	27	21	22	22	3.8	47	35	100	19	39
21	58	29	27	21	22	24	1.9	53	30	83	13	34
22	53	33	30	20	20	23	24	49	26	52	9.0	36
23	44	43	29	19	24	20	43	47	25	35	10	89
24	44	53	28	23	26	21	26	53	19	28	9.7	54
25	47	52	26	21	20	20	26	40	12	27	7.0	40
26	32	44	28	20	22	20	15	35	5.5	42	10	35
27	44	36	28	20	26	21	12	34	7.2	47	15	33
28	44	27	28	26	22	29	8.0	37	10	42	18	32
29	37	33	28	20	---	32	5.5	62	9.7	39	25	27
30	36	32	28	20	---	28	9.0	95	12	32	32	26
31	36	---	29	20	---	24	---	97	---	50	30	---
TOTAL	1490	1043	925	739	636	811	393.8	1009.2	1204.4	3165	963.7	1141.5
MEAN	48.1	34.8	29.8	23.8	22.7	26.2	13.1	32.6	40.1	102	31.1	38.1
MAX	102	53	62	32	28	37	43	97	126	413	118	89
MIN	32	27	25	19	14	20	1.7	5.0	5.5	17	7.0	8.5
AC-FT	2960	2070	1830	1470	1260	1610	781	2000	2390	6280	1910	2260

CAL YR 1980 TOTAL 25273.0 MEAN 69.1 MAX 524 MIN 12 AC-FT 50130
WTR YR 1981 TOTAL 13521.6 MEAN 37.0 MAX 413 MIN 1.7 AC-FT 26820

09372000 Mc ELMO CREEK NEAR COLORADO-UTAH STATE LINE--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--November 1977 to September 1981 (discontinued).

WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN DEMAND, CHEM-ICAL (HIGH LEVEL) (MG/L)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./100 ML)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
OCT											
07...	1200	46	3300	--	8.0	8.0	8.8	9.8	18	K80	K230
27...	1325	45	2500	--	8.0	8.0	--	9.7	22	K110	610
NOV											
24...	0950	54	2000	2400	8.3	3.5	--	11.0	83	K190	460
JAN											
05...	0945	32	3500	3500	8.4	2.0	--	11.2	15	K65	K87
27...	0900	27	3500	3590	8.4	.0	--	12.1	52	150	K54
MAR											
02...	0915	22	3000	3580	8.1	7.0	--	10.2	30	99	120
30...	0925	28	3250	3680	8.4	8.0	--	9.9	24	120	>320
APR											
27...	0900	16	2350	2740	8.3	13.0	--	8.7	140	K2900	>1600
MAY											
26...	0905	41	1900	2180	7.7	15.0	96	8.3	50	1300	2800
JUN											
29...	1100	14	2200	2730	7.8	23.0	--	7.1	44	1800	K1400
JUL											
27...	1040	45	2000	2220	7.7	21.0	--	7.3	46	1400	5700
AUG											
24...	1315	10	3000	3450	8.0	22.0	--	7.0	64	K200	K600

DATE	HARD-NESS (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)
OCT											
07...	1300	270	160	180	2.4	5.5	200	1500	42	.4	5.0
27...	1500	320	180	200	2.2	7.5	260	1500	53	.4	7.7
NOV											
24...	1200	260	140	150	1.9	5.0	260	1200	42	.5	9.7
JAN											
05...	1800	360	230	250	2.5	4.4	210	1900	56	.3	7.9
27...	1700	330	220	270	2.8	4.4	320	1900	65	.4	8.1
MAR											
02...	1800	330	230	280	3.3	5.2	270	2000	63	.3	2.3
30...	1700	250	250	280	3.0	6.1	270	1900	64	.5	3.3
APR											
27...	1400	260	170	210	2.5	6.2	220	1400	44	.4	4.3
MAY											
26...	1000	218	120	140	2.1	6.5	260	990	36	.2	12
JUN											
29...	1400	260	180	220	2.6	6.6	240	1500	65	.4	3.5
JUL											
27...	1100	240	130	140	1.8	5.3	230	1100	38	.3	13
AUG											
24...	1700	320	210	260	3.1	7.9	260	1800	70	.4	6.7

09372000 Mc ELMO CREEK NEAR COLORADO-UTAH STATE LINE--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)
OCT											
07...	2440	2290	3.3	300	1.0	.020	.77	.79	1.8	.010	.010
27...	2670	2430	3.6	324	1.5	.060	.68	.74	2.2	.140	.080
NOV											
24...	2060	1960	2.8	300	2.6	.070	3.1	3.20	5.8	.560	.080
JAN											
05...	3220	2940	4.4	278	3.6	.100	.90	1.00	4.6	.180	.110
27...	3260	2990	4.4	238	4.9	.190	1.1	1.30	6.2	.180	.150
MAR											
02...	3280	3070	4.5	195	2.9	.130	.74	.87	3.8	.080	.040
30...	3450	2920	4.7	262	3.4	.110	1.6	1.70	5.1	.100	.030
APR											
27...	2460	2230	3.4	106	.62	.090	.89	.98	1.6	.110	.060
MAY											
26...	1840	1680	2.5	204	.79	.140	1.8	1.90	2.7	.490	.070
JUN											
29...	2410	2380	3.3	91.1	.00	.120	.88	1.00	1.0	.020	.010
JUL											
27...	1970	1710	2.7	240	.98	.160	1.5	1.70	2.7	.430	.030
AUG											
24...	3200	2840	4.4	89.9	.00	.110	.87	.98	.98	.020	.010

DATE	BORON, DIS-SOLVED (UG/L AS B)	IRON, DIS-SOLVED (UG/L AS FE)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C)	CARBON, ORGANIC SUS-PENDED TOTAL (MG/L AS C)	PHYTO-PLANK-TON, TOTAL (CELLS PER ML)	PERI-PHYTON BIOMASS ASH WEIGHT G/SQ M	PERI-PHYTON BIOMASS TOTAL DRY WEIGHT G/SQ M	BIOMASS CHLORO-PHYLL RATIO PERI-PHYTON (UNITS)	CHLOR-A PERI-PHYTON CHROMO-GRAPHIC FLUOROM (MG/M2)	CHLOR-B PERI-PHYTON CHROMO-GRAPHIC FLUOROM (MG/M2)
OCT										
07...	110	<10	7.8	.3	1800	--	--	--	--	--
27...	200	50	20	.6	1300	--	--	--	--	--
NOV										
24...	180	50	8.2	.5	16000	--	--	--	--	--
JAN										
05...	210	40	14	--	2100	121	126	98.4	50.8	.000
27...	230	60	28	.3	--	--	--	--	--	--
MAR										
02...	220	22	19	.2	880	--	--	--	--	--
30...	210	60	14	.2	1700	73.9	77.6	130	28.4	.090
APR										
27...	190	50	10	.8	1200	--	--	--	--	--
MAY										
26...	140	<10	15	--	11000	--	--	--	--	--
JUN										
29...	210	40	21	.5	500	26.0	27.4	169	8.29	.000
JUL										
27...	170	30	11	--	4200	--	--	--	--	--
AUG										
24...	290	33	6.6	.3	1900	--	--	--	--	--

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	SED. SUSP. FALL DIAM. % FINER THAN .002 MM	SED. SUSP. FALL DIAM. % FINER THAN .004 MM	SED. SUSP. FALL DIAM. % FINER THAN .016 MM	SED. SUSP. FALL DIAM. % FINER THAN .062 MM	SED. SUSP. FALL DIAM. % FINER THAN .125 MM	SED. SUSP. FALL DIAM. % FINER THAN .250 MM	SED. SUSP. FALL DIAM. % FINER THAN .500 MM
OCT												
07...	1200	45	138	17	--	--	--	--	--	--	--	--
27...	1325	45	60	7.3	--	--	--	--	--	--	--	--
NOV												
24...	0950	54	2310	337	--	50	64	90	99	100	100	100
JAN												
05...	0945	32	30	2.6	--	--	--	--	--	--	--	--
27...	0900	27	24	1.7	--	--	--	--	--	--	--	--
MAR												
02...	0915	22	16	.95	--	--	--	--	--	--	--	--
30...	0925	28	108	8.2	66	--	--	--	--	--	--	--
APR												
27...	0900	16	87	3.8	--	--	--	--	--	--	--	--
AUG												
24...	1315	10	30	.84	--	--	--	--	--	--	--	--

09372000 Mc ELMO CREEK NEAR COLORADO-UTAH STATE LINE--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DISSOLVED (UG/L AS AS)	ARSENIC TOTAL IN BOTTOM MATERIAL (UG/G AS AS)	BARIUM, TOTAL RECOVERABLE (UG/L AS BA)	BARIUM, DISSOLVED (UG/L AS BA)	BARIUM, RECOV. FM BOTTOM MATERIAL (UG/G AS BA)	BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE)	BERYLLIUM, DISSOLVED (UG/L AS BE)	BERYLLIUM, RECOV. FM BOTTOM MATERIAL (UG/G)
OCT 07...	1200	0	1	1	1	200	40	200	0	<1	0
MAR 02...	0915	10	--	1	--	--	30	--	--	<1	--
MAY 26...	0905	20	10	3	0	200	50	60	0	<1	0
AUG 24...	1315	10	--	2	--	--	62	--	--	<2	--

DATE	CADMIUM TOTAL RECOVERABLE (UG/L AS CD)	CADMIUM DISSOLVED (UG/L AS CD)	CADMIUM RECOV. FM BOTTOM MATERIAL (UG/G AS CD)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	CHROMIUM, DISSOLVED (UG/L AS CR)	CHROMIUM, RECOV. FM BOTTOM MATERIAL (UG/G)	COBALT, TOTAL RECOVERABLE (UG/L AS CO)	COBALT, DISSOLVED (UG/L AS CO)	COBALT, RECOV. FM BOTTOM MATERIAL (UG/G AS CO)	COPPER, DISSOLVED (UG/L AS CU)	COPPER, RECOV. FM BOTTOM MATERIAL (UG/G AS CU)
OCT 07...	0	<1	1	10	20	6	0	<3	10	<10	8
MAR 02...	--	<1	--	--	0	--	--	<3	--	<10	--
MAY 26...	1	<1	1	10	10	10	1	<3	0	<10	5
AUG 24...	--	<2	--	--	10	--	--	<6	--	<20	--

DATE	LEAD, TOTAL RECOVERABLE (UG/L AS PB)	LEAD, DISSOLVED (UG/L AS PB)	LEAD, RECOV. FM BOTTOM MATERIAL (UG/G AS PB)	LITHIUM TOTAL RECOVERABLE (UG/L AS LI)	LITHIUM DISSOLVED (UG/L AS LI)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	MANGANESE, DISSOLVED (UG/L AS MN)	MANGANESE, RECOV. FM BOTTOM MATERIAL (UG/G)	MERCURY TOTAL RECOVERABLE (UG/L AS HG)	MERCURY DISSOLVED (UG/L AS HG)	MERCURY RECOV. FM BOTTOM MATERIAL (UG/G AS HG)
OCT 07...	2	<10	10	120	120	80	54	230	.0	.0	.02
MAR 02...	--	<10	--	--	170	--	180	--	--	.0	--
MAY 26...	7	<10	10	90	100	490	96	230	.1	.0	.02
AUG 24...	--	<20	--	--	140	--	230	--	--	.0	--

DATE	MOLYBDENUM, TOTAL RECOVERABLE (UG/L AS MO)	MOLYBDENUM, DISSOLVED (UG/L AS MO)	MOLYBDENUM, RECOV. FM BOTTOM MATERIAL (UG/G)	NICKEL, TOTAL RECOVERABLE (UG/L AS NI)	NICKEL, DISSOLVED (UG/L AS NI)	NICKEL, RECOV. FM BOTTOM MATERIAL (UG/G AS NI)	SELENIUM, TOTAL (UG/L AS SE)	SELENIUM, DISSOLVED (UG/L AS SE)	SELENIUM, TOTAL IN BOTTOM MATERIAL (UG/G)	STRONTIUM, DISSOLVED (UG/L AS SR)	VANADIUM, DISSOLVED (UG/L AS V)
OCT 07...	3	<10	13	3	2	10	5	5	0	3700	<3.0
MAR 02...	--	<10	--	--	5	--	--	8	--	4700	<6.0
MAY 26...	4	<10	0	17	0	0	2	3	0	3100	<6.0
AUG 24...	--	<20	--	--	0	--	--	5	--	5500	<12

DATE	ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	ZINC, DISSOLVED (UG/L AS ZN)	ZINC, RECOV. FM BOTTOM MATERIAL (UG/G AS ZN)	GROSS ALPHA, DISSOLVED (PCI/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (PCI/L AS U-NAT)	GROSS ALPHA, DISSOLVED (UG/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT)	GROSS BETA, DISSOLVED (PCI/L AS CS-137)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137)	GROSS BETA, DISSOLVED (PCI/L AS SR/YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/YT-90)
OCT 07...	30	<3	27	<29	<.3	<42	<.4	<18	.9	<18	.9
MAR 02...	--	13	--	--	--	--	--	--	--	--	--
MAY 26...	50	10	7	25	6.7	<37	<9.9	<15	11	<15	11
AUG 24...	--	14	--	--	--	--	--	--	--	--	--

09372000 Mc ELMO CREEK NEAR COLORADO-UTAH STATE LINE--Continued

PHYTOPLANKTON ANALYSES, OCTOBER 1980 TO AUGUST 1981

DATE	OCT 7,80	NOV 24,80	JAN 5,81	MAR 2,81	MAR 30,81
TIME	1200	0950	0945	0915	0925

DATE	OCT 7,80	OCT 27,80	NOV 24,80	JAN 5,81	MAR 2,81	MAR 30,81
TIME	1200	1325	0950	0945	0915	0925
TOTAL CELLS/ML	1800	1300	16000	2100	880	1700
DIVERSITY: DIVISION	0.2	1.2	0.1	0.4	1.1	0.3
.CLASS	0.2	1.2	0.1	0.4	1.1	0.3
..ORDER	0.7	1.4	0.3	0.4	1.2	0.3
...FAMILY	2.1	1.9	2.0	1.4	1.5	0.6
....GENUS	2.1	1.9	2.0	1.5	1.5	0.6

ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)												
.CHLOROPHYCEAE												
..CHLOROCOCCALES												
...OOCYSTACEAE												
....ANKISTRODESMUS	17	1	13	1	160	1	--	-	--	-	--	-
..VOLVOCALES												
...CHLAMYDOMONADACEAE												
....CHLAMYDOMONAS	17	1	26	2	--	-	39	2	26	3	33	2
...VOLVOCACEAE												
....PANDORINA	--	-	--	-	--	-	--	-	--	-	--	-
CHRYSOPHYTA												
.BACILLARIOPHYCEAE												
..CENTRALES												
...BIDDULPHIACEAE												
....BIDDULPHIA	--	-	--	-	620	4	--	-	--	-	--	-
...COSCINODISCACEAE												
....CYCLOTELLA	170	9	13	1	--	-	--	-	--	-	--	-
..PENNALES												
...ACHNANTHACEAE												
....ACHNANTHES	--	-	--	-	--	-	--	-	--	-	--	-
....COCCONEIS	--	-	--	-	--	-	--	-	--	-	--	-
....RHOICOSPHENIA	--	-	26	2	310	2	--	-	--	-	--	-
...DIATOMACEAE												
....DIATOMA	--	-	--	-	--	-	20	1	--	-	--	-
...FRAGILARIACEAE												
....SYNEDRA	100	5	--	-	160	1	20	1	--	-	--	-
...GOMPHONEMATACEAE												
....GOMPHONEMA	--	-	--	-	3000#	18	--	-	--	-	33	2
...NAVICULACEAE												
....ENTOMONEIS	--	-	--	-	--	-	20	1	--	-	--	-
....GYROSIGMA	--	-	--	-	--	-	--	-	--	-	--	-
....NAVICULA	740#	40	710#	54	8400#	52	1500#	71	550#	63	1600#	90
...NITZSCHIACEAE												
....NITZSCHIA	650#	35	130	10	1400	9	330#	16	51	6	67	4
...SURIRELLACEAE												
....SURIRELLA	130	7	--	-	2000	13	98	5	--	-	--	-
CRYPTOPHYTA (CRYPTOMONADS)												
.CRYPTOPHYCEAE												
..CRYPTOMONADALES												
...CRYPTOCHRYSIDACEAE												
....CHROOMONAS	--	-	--	-	--	-	--	-	--	-	--	-
...CRYPTOMONADACEAE												
....CRYPTOMONAS	17	1	13	1	--	-	--	-	13	1	33	2
CYANOPHYTA (BLUE-GREEN ALGAE)												
.CYANOPHYCEAE												
..CHROOCOCCALES												
...CHROOCOCCACEAE												
....ANACYSTIS	--	-	26	2	--	-	--	-	26	3	--	-
..HORMOGONALES												
...NOSTOCACEAE												
....ANABAENA	--	-	--	-	--	-	--	-	--	-	--	-
...OSCILLATORIACEAE												
....LYNGBYA	--	-	--	-	--	-	--	-	--	-	--	-
....OSCILLATORIA	--	-	340#	26	--	-	98	5	210#	24	--	-
...RIVULARIACEAE												
....RAPHIDIOPSIS	--	-	--	-	--	-	--	-	--	-	--	-
EUGLENOPHYTA (EUGLENOIDS)												
.EUGLENOPHYCEAE												
..EUGLENALES												
...EUGLENACEAE												
....EUGLENA	--	-	13	1	--	-	--	-	--	-	--	-
....TRACHELOMONAS	--	-	--	-	--	-	--	-	--	-	--	-

NOTE: # - DOMINANT ORGANISM: EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED: LESS THAN 1/2%

09372000 Mc ELMO CREEK NEAR COLORADO-UTAH STATE LINE--Continued

PHYTOPLANKTON ANALYSES, OCTOBER 1980 TO AUGUST 1981

DATE	APR 27,81	MAY 26,81	JUN 29,81	JUL 27,81	AUG 24,81
TIME	0900	0905	1100	1040	1315
TOTAL CELLS/ML	1200	11000	500	4200	1900
DIVERSITY: DIVISION	1.1	1.1	0.7	0.9	0.9
.CLASS	1.1	1.1	0.7	0.9	0.9
..ORDER	1.5	1.5	1.5	1.0	1.5
...FAMILY	1.8	2.4	1.8	1.6	2.0
....GENUS	1.8	2.8	1.8	1.7	2.0

ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
CHLOROPHYTA (GREEN ALGAE)										
.CHLOROPHYCEAE										
..CHLOROCOCCALES										
...OOCYSTACEAE										
....ANKISTRODESMUS	--	-	--	-	--	-	--	-	--	-
..VOLVOCALES										
...CHLAMYDOMONADACEAE										
....CHLAMYDOMONAS	51	4	210	2	13	3	42	1	--	-
...VOLVOCACEAE										
....PANDORINA	--	-	--	-	--	-	110	3	--	-
CHRYSOPHYTA										
.BACILLARIOPHYCEAE										
..CENTRALES										
...BIDDULPHIACEAE										
....BIDDULPHIA	--	-	--	-	--	-	--	-	--	-
...COSCINODISCACEAE										
....CYCLOTELLA	77	6	1100	9	320#	64	56	1	380#	20
..PENNALES										
...ACHNANTHACEAE										
....ACHNANTHES	--	-	140	1	--	-	--	-	--	-
....COCCONEIS	--	-	--	-	--	-	28	1	--	-
....RHOICOSPHENIA	13	1	280	2	--	-	--	-	--	-
...DIATOMACEAE										
....DIATOMA	--	-	--	-	--	-	--	-	--	-
...FRAGILARIACEAE										
....SYNEDRA	--	-	--	-	39	8	42	1	72	4
...GOMPHONEMATACEAE										
....GOMPHONEMA	--	-	210	2	--	-	--	-	18	1
...NAVICULACEAE										
....ENTOMONEIS	--	-	--	-	--	-	--	-	--	-
....GYROSIGMA	--	-	70	1	--	-	--	-	--	-
....NAVICULA	820#	67	4600#	40	13	3	210	5	740#	39
...NITZSCHIACEAE										
....NITZSCHIA	--	-	700	6	77#	15	360	9	110	6
...SURIRELLACEAE										
....SURIRELLA	39	3	700	6	--	-	42	1	--	-
CRYPTOPHYTA (CRYPTOMONADS)										
.CRYPTOPHYCEAE										
..CRYPTOMONADALES										
...CRYPTOCHRYSIDACEAE										
....CHROOMONAS	13	1	--	-	--	-	--	-	--	-
...CRYPTOMONADACEAE										
....CRYPTOMONAS	--	-	--	-	13	3	--	-	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)										
.CYANOPHYCEAE										
..CHROOCOCCALES										
...CHROOCOCCACEAE										
....ANACYSTIS	26	2	70	1	13	3	--	-	--	-
..HORMOGONALES										
...NOSTOCACEAE										
....ANABAENA	140	12	--	-	--	-	--	-	--	-
...OSCILLATORIACEAE										
....LYNGBYA	--	-	1800#	15	--	-	110	3	--	-
....OSCILLATORIA	--	-	1400	12	--	-	2900#	70	--	-
...RIVULARIACEAE										
....RAPHIDIOPSIS	--	-	--	-	--	-	220	5	--	-
EUGLENOPHYTA (EUGLENOIDS)										
.EUGLENOPHYCEAE										
..EUGLENALES										
...EUGLENACEAE										
....EUGLENA	39	3	70	1	--	-	--	-	--	-
....TRACHELOMONAS	--	-	140	1	13	3	--	-	570#	30

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

TRANSMOUNTAIN DIVERSIONS FROM COLORADO RIVER BASIN IN COLORADO

There are 20 tunnels or ditches, all of which are equipped with water-stage recorders and Parshall flumes or sharp-crested weirs. Records furnished by Colorado Division of Water Resources. The locations of these diversions are given in the following list.

09010000 Grand River ditch diverts water from tributaries of Colorado River to La Poudre Pass Creek (tributary to Cache la Poudre River) in NW¼ sec.21, T.6 N., R.75 W., in Platte River basin. Two collection ditches beginning at headgates located in sec.28, T.5 N., R.76 W., and sec.29, T.6 N., R.75 W., intercept all tributaries upstream on each side of the Colorado River and converge at La Poudre Pass.
REVISIONS (WATER YEARS).--WSP 1313: 1912-27.

09013000 Alva B. Adams tunnel diverts water from Grand Lake and Shadow Mountain Lake in NW¼ sec.9, T.3 N., R.75 W., in Colorado River basin, to Lake Estes (Big Thompson River) in sec.30, T.5 N., R.72 W., in Platte River basin. For daily discharge, see elsewhere in this report.

09021500 Berthoud Pass ditch diverts water from tributaries of Fraser River between headgate in sec.33, T.2 S., R.75 W., and Berthoud Pass, in Colorado River basin, to Hoop Creek (tributary to West Fork Clear Creek) in sec.10, T.3 S., R.75 W., in Platte River basin.

09022500 Moffat water tunnel diverts water from tributaries of Williams Fork (via August P. Gumlick and Vasquez tunnels, beginning in 1959) between headgates (in secs.20 and 29, T.3 S., R.76 W.) and west portal of August P. Gumlick tunnel (in sec.28, T.3 S., R.76 W.) and from the main stem and tributaries of Fraser River between headgates (in sec.8, T.2 S., R.76 W., and sec.24, T.1 S., R.75 W.) and west portal of Moffat tunnel (in sec.11, T.2 S., R.75 W.), in Colorado River basin, to South Boulder Creek, in sec.2, T.2 S., R.74 W., in Platte River basin. (See sta. 09036000 for diversions by August P. Gumlick tunnel.)

09042000 Hoosier Pass tunnel diverts water from tributaries of Blue River in Colorado River basin to Montgomery Reservoir (Middle Fork South Platte River) in sec.14, T.8 S., R.78 W., in Platte River basin; this water is again diverted to South Catamount Creek (tributary to Catamount Creek) in SE¼ sec.14, T.13 S., R.69 W., in the Arkansas River basin. Collection conduits extending from the right bank of Crystal Creek (tributary to Spruce Creek) in sec.14, T.7 S., R.78 W., right bank of Spruce Creek in sec.23, T.7 S., R.78 W., right bank of McCullough Gulch in sec.26, T.7 S., R.78 W., right bank of Monte Cristo Creek in SW¼NE¼ sec.2, T.8 S., R.78 W., left bank of Bemrose Creek in SW¼SW¼ sec.6, T.8 S., R.77 W., and intercepting intermediate tributaries, transport diversions to north portal of the tunnel.

09050590 Harold D. Roberts tunnel diverts water from Dillon Reservoir (Blue River) in sec.18, T.5 S., R.77 W., in Blue River basin, to North Fork South Platte River (tributary to South Platte River) in SW¼SW¼ sec.4, T.7 S., R.74 W., in Platte River basin. Figures include a small amount of ground-water inflow between Dillon Reservoir and east portal of tunnel.

09061500 Columbine ditch diverts water from tributaries of Eagle River in sec.5, T.8 S., R.79 W., in Colorado River basin to Chalk Creek (tributary to East Fork Arkansas River) in NW¼ sec.9, T.8 S., R.79 W., in Arkansas River basin.

09062000 Ewing ditch diverts water from Piney Creek in sec.11, T.8 S., R.80 W., in Eagle River basin, to Thayer Gulch (tributary to Tennessee Creek) in sec.11, T.8 S., R.80 W., in Arkansas River basin.

09062500 Wurtz ditch diverts water from tributaries of Eagle River between headgate in sec.32, T.7 S., R.80 W., and Tennessee Pass, in Colorado River basin, to West Tennessee Creek (tributary to Tennessee Creek) in sec.17, T.8 S., R.80 W., in Arkansas River basin.

09063700 Homestake tunnel diverts water from Homestake Lake (Middle Fork Homestake Creek), in sec.17, T.8 S., R.81 W., in Eagle River basin, to Lake Fork in sec.9, T.9 S., R.81 W., in Arkansas River basin. Water is imported to Homestake Lake from tributaries of Homestake Creek by collection conduits that extend from right bank of French Creek in sec.28, T.7 S., R.81 W., and left bank of East Fork Homestake Creek in sec.9, T.8 S., R.81 W., and intercept intermediate tributaries.

09073000 Twin Lakes tunnel diverts water from tributaries of Roaring Fork River between headgates (in sec.21, T.11 S., R.83 W., and sec.2, T.11 S., R.83 W.), and west portal of Twin Lakes tunnel (in sec.24, T.11 S., R.83 W), in Colorado River basin, to North Fork Lake Creek in sec.22, T.11 S., R.82 W., in Arkansas River basin.

TRANSMOUNTAIN DIVERSIONS FROM COLORADO RIVER BASIN IN COLORADO--Continued

09077160 Charles H. Boustead Tunnel diverts water from the main stem and tributaries of Fryingpan River (tributary to Roaring Fork River), in Colorado River basin, to Lake Fork in sec.10, T.9 S., R.81 W., in Arkansas River basin. Water is transported to west portal of tunnel (at lat 39°14'44", long 106°31'47"), by a series of collection conduits extending between headgates on right bank of Sawyer Creek at lat 39°15'56", long 106°38'19", and right bank of Fryingpan River at lat 39°14'40", long 106°31'49", and intercepting intermediate tributaries.

09077500 Busk-Ivanhoe tunnel diverts water from Ivanhoe Lake (Ivanhoe Creek), tributary to Fryingpan River in sec.13, T.9 S., R.82 W., in Roaring Fork River basin, to Busk Creek (tributary to Lake Fork) in sec.20, T.9 S., R.81 W., in Arkansas River basin.

09115000 Larkspur ditch diverts water from tributaries of Tomichi Creek between headgates (in sec.11, T.48 N., R.6 E., and sec.1, T.47 N., R.6 E.), and Marshall Pass, in Gunnison River basin, to Poncha Creek (tributary to South Arkansas River) in SE¼ sec.24, T.48 N., R.6 E., in Arkansas River basin.

09118200 Tarbell ditch diverts water from Lake Fork Cochetopa Creek (tributary to Cochetopa Creek), in NW¼ sec.18, T.43 N., R.2 E., in Gunnison River basin, to Lake Fork Saguache Creek (tributary to Middle Fork Saguache Creek) in NE¼ sec.18, T.43 N., R.2 E., in Rio Grande Basin. All records available prior to October 1960 published in WSP 1733.

REVISIONS (WATER YEARS).--WSP 1733: 1949-51.

09121000 Tabor ditch diverts water from tributaries of Cebolla Creek in secs.29 and 36, T.43 N., R.3 W., in Gunnison River basin, to Big Spring Creek (tributary to North Clear Creek) in sec.35, T.43 N., R.3 W., in Rio Grande basin.

09341000 Treasure Pass diversion ditch diverts water from tributaries of Wolf Creek between headgates (in sec.31, T.38 N., R.2 E., and sec.6, T.37 N., R.3 E.), and Wolf Creek Pass, in San Juan River basin, to tributary of South Fork Rio Grande in sec.31, T.38 N., R.2 E., in Rio Grande basin.

09347000 Don La Font ditches 1 and 2 divert water from tributaries of Piedra River between headgates in NW¼ sec.4, T.38 N., R.1 W., and SW¼ sec.33, T.39 N., R.1 W.), and Piedra Pass, in San Juan River basin, to South River in sec.4, T.38 N., R.1 W., in Rio Grande basin.

09351000 Pine River-Weminuche Pass ditch diverts water from North Fork Los Pinos River (tributary to Los Pinos River) in sec.4, T.39 N., R.4 W., in San Juan River basin, to Weminuche Creek in sec.33, T.40 N., R.4 W., in Rio Grande basin.

09351500 Weminuche Pass ditch diverts water from left bank of Rincon la Vaca Creek (tributary to Los Pinos River) in sec.5, T.39 N., R.4 W., in San Juan River basin, to Weminuche Creek in sec.33, T.40 N., R.4 W., in Rio Grande basin.

TRANSMOUNTAIN DIVERSIONS FROM COLORADO RIVER BASIN IN COLORADO

DIVERSIONS, IN ACRE-FEET, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

Diversion	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Water year
TO PLATTE RIVER BASIN													
09010000 Grand River ditch...	0	0	0	0	0	0	69	1,600	8,210	3,160	650	22	13,700
09013000 Alva B. Adams tunnel	15,170	18,140	16,630	24,370	27,060	23,570	16,210	17,070	14,360	28,160	27,880	24,140	252,800
09021500 Berthoud Pass ditch.	0	0	0	0	0	0	0	15	323	116	22	0	463
09022500 Moffat water tunnel.	853	906	761	491	373	411	1,690	7,080	27,160	8,140	2,640	3,420	53,920
09050590 Harold D. Roberts tunnel...........	13,600	9,150	6,110	9,080	6,700	3,310	0	12,690	15,530	14,700	14,920	4,410	110,200
Total.......................	29,620	28,200	23,500	33,940	34,130	27,290	17,970	38,440	65,580	54,280	46,110	31,990	431,050
TO ARKANSAS RIVER BASIN													
09042000 Hoosier Pass tunnel.	0	0	0	0	0	0	40	733	3,100	745	774	257	5,650
09061500 Columbine ditch.....	0	0	0	0	0	0	3.8	173	629	85	30	0	921
09062000 Ewing ditch.........	0	0	0	0	0	0	21	81	155	79	50	43	428
09062500 Wurtz ditch.........	0	0	0	0	0	0	23	314	453	61	0	0	851
09063700 Homestake tunnel....	0	0	270	6,140	5,550	9,110	218	0	0	0	0	0	21,290
09073000 Twin Lakes tunnel...	122	12	23	26	22	24	527	5,640	19,490	5,140	1,720	1,580	34,330
09077160 Charles H. Boustead Tunnel...........	0	0	0	0	0	0	583	8,100	23,500	2,000	0	0	34,180
09077500 Busk-Ivanhoe tunnel.	28	83	0	0	0	0	89	717	2,750	484	204	204	4,560
09115000 Larkspur ditch......	18	0	0	0	0	0	0	0	42	72	13	0	127
Total.......................	150	95	296	6,170	5,570	9,130	1,500	15,760	50,120	8,670	2,790	2,080	102,330
TO RIO GRANDE BASIN													
09118200 Tarbell ditch.......	0	0	0	0	0	0	0	23	48	97	95	28	291
09121000 Tabor ditch.........	0	0	0	0	0	0	35	124	201	175	136	0	671
09341000 Treasure Pass diversion ditch........	0	0	0	0	0	0	1.7	17	202	12	0	0	233
09347000 Don La Font ditches No. 1 and 2.......	0	0	0	0	0	0	0	0	135	42	35	2.8	215
09351000 Pine River-Weminuche Pass ditch........	0	0	0	0	0	0	0	108	182	71	0	0	361
09351500 Weminuche Pass ditch	0	0	0	0	0	0	0	511	1,090	378	0	0	1,980
Total.......................	0	0	0	0	0	0	37	783	1,860	775	266	31	3,750
Grand Total.................	29,770	28,300	23,800	40,110	39,700	36,420	19,510	54,980	117,560	63,720	49,170	34,100	537,130

NOTE: Due to method of computing water year figures and rounding procedures, totals do not agree.

CREST-STAGE PARTIAL-RECORD STATIONS

The following table contains annual maximum discharge for crest-stage stations. A crest-stage gage is a device which will register the peak stage occurring between inspections of the gage. A stage-discharge relation for each gage is developed from discharge measurements made by indirect measurements of peak flow or by current meter. The date of the maximum discharge is not always certain but is usually determined by comparison with nearby continuous-record stations, weather records, or local inquiry. Only the maximum discharge for each water year is given. Information on some lower floods may have been obtained, but is not published herein. The years given in the period of record represent water years for which the annual maximum has been determined.

ANNUAL MAXIMUM DISCHARGE AT CREST-STAGE PARTIAL-RECORD STATIONS DURING WATER YEAR 1981

Station number	Station name	Location	Total drainage area (mi²)	Non-contributing	Period of record	Annual maximum		
						Date	Gage height (feet)	Discharge (ft³/s)
		GREEN RIVER BASIN						
09238500	Walton Creek near Steamboat Springs, CO	Lat 40°24'29", long 108°47'11", in SW¼NW¼ sec.11, T.5 N., R.85 W., Routt County, on left bank 0.4 mi (0.6 km) downstream from Beaver Creek and 6.0 mi (9.7 km) southeast of Steamboat Springs.	42.4	-	1920-22, 1965-73 1978-81	1981	2.51	1,210
09361400	Junction Creek near Durango, CO	Lat 37°20'04", long 107°54'35", in sec.36, T.36 N., R.10 W., La Plata County, on left bank 4.5 mi (7.2 km) upstream from mouth and 4.5 mi (7.2 km) northwest of Durango.	26.3	-	1959-65, 1972, 1979-81	1981	2.16	37

DISCHARGE MEASUREMENTS MADE AT MISCELLANEOUS SITES DURING THE 1981 WATER YEAR

Station no.	Stream	Tributary to	Location	Date	Discharge (ft³/s)
		GREEN RIVER BASIN			
09238000	Oak Creek near Oak Creek, CO---	Yampa River	Lat 40°14'38", long 107°00'53"	04-27-81	18
				05-19-81	16
				06-10-81	18
				06-26-81	8.7
				07-07-81	11
				08-25-81	5.3
				09-29-81	1.2
09244100	Fish Creek near Milner, CO-----	Trout Creek	Lat 40°20'03", long 107°08'19"	04-01-81	12
				04-27-81	15
				05-20-81	12
				06-11-81	6.3
				07-07-81	3.3
				08-25-81	1.3
				09-29-81	1.1
09248600	East Fork of Williams Fork above Willow Creek, CO.	Williams Fork River	Lat 40°15'40", long 107°17'40"	04-16-81	72
				05-01-81	232
				05-22-81	150
				06-25-81	58
				07-24-81	44
				08-28-81	29
				10-01-81	21
--------	Morapos Creek near Iles, CO----	Williams Fork River	Lat 40°16'01", long 107°37'54"	04-14-81	7.2
				04-30-81	4.6
				05-14-81	3.1
				06-18-81	1.2
				07-01-81	.46
				07-23-81	.54
				09-10-81	.36
--------	Stinking Gulch near Thornburgh, CO.	Milk Creek	Lat 40°16'01", long 107°39'53"	04-14-81	4.8
				04-29-81	12
				05-14-81	11
				06-17-81	6.1
				07-01-81	2.4
				07-22-81	1.2
				09-09-81	.18
--------	Willow Creek near Dunckley, CO-	East Fork of Williams Fork River	Lat 40°17'47", long 107°16'16"	04-16-81	9.3
				05-01-81	4.1
				05-21-81	7.2
				06-25-81	1.6
				07-24-81	.54
				08-27-81	.26
				09-30-81	.11
--------	Trout Creek near Oak Creek, CO-	Yampa River	Lat 40°18'16", long 107°01'10"	04-02-81	12
				04-27-81	26
				05-19-81	16
				06-10-81	90
				07-07-81	12
				08-25-81	15
				09-29-81	6.4
--------	Deer Creek near Hamilton, CO---	Morapos Creek	Lat 40°18'29", long 107°37'56"	04-14-81	8.1
				04-30-81	5.9
				05-14-81	10
				06-18-81	1.9
				07-01-81	2.8
				07-23-81	1.0
				09-10-81	.94
--------	South Fork of Williams Fork at mouth near Pagoda, CO.	Williams Fork River	Lat 40°18'57", long 107°24'35"	04-16-81	56
				05-01-81	183
				05-22-81	139
				06-25-81	13
				07-24-81	7.1
				08-28-81	2.3
				09-30-81	3.4
--------	Waddle Creek near Hamilton, CO-	Williams Fork River	Lat 40°19'44", long 107°32'29"	04-16-81	4.0
				04-30-81	2.0
				05-22-81	3.0
				06-18-81	1.2
				07-02-81	1.0
				07-16-81	.58
				09-10-81	.50

DISCHARGE MEASUREMENTS MADE AT MISCELLANEOUS SITES DURING THE 1981 WATER YEAR

Station no.	Stream	Tributary to	Location	Date	Discharge (ft^3/s)
		GREEN RIVER BASIN--Continued			
--------	Milk Creek near Iles Grove, CO-	Yampa River	Lat 40°19'48", long 107°44'56"	04-15-81	26
				04-30-81	97
				05-22-81	100
				06-25-81	2.6
				07-09-81	2.6
				08-27-81	1.2
				10-01-81	.70
--------	Trout Creek above Milner, CO---	Yampa River	Lat 40°27'20", long 106°59'12"	04-01-81	27
				04-27-81	44
				05-20-81	30
				06-11-81	97
				07-08-81	10
				08-26-81	12
				09-30-81	4.6
		SAN JUAN RIVER			
--------	Rock Creek near Ignacio, CO----	Los Pinos River	Lat 37°06'36", long 107°38'40"	01-26-81	.77
				02-04-81	.46
				03-05-81	1.18

09165000 - DOLORES RIVER BELOW RICO, CO. (LAT 37 38 20 LONG 108 03 35)

DATE	TIME	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE (DEG C)	DATE	TIME	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE (DEG C)
OCT , 1980				APR , 1981			
06...	1035	475	5.5	06...	1000	520	1.0
NOV				MAY			
03...	1050	490	2.0	06...	0905	180	4.0
DEC				18...	1100	225	6.0
01...	1020	480	.5	JUN			
JAN , 1981				01...	1200	180	6.0
05...	1050	550	.0	09...	1035	140	6.0
FEB				JUL			
02...	1045	600	.0	06...	1010	330	12.0
MAR				AUG			
02...	1040	580	.5	03...	1030	300	11.0
09...	1635	720	2.0	31...	1015	320	10.5

09166500 - DOLORES RIVER AT DOLORES, CO. (LAT 37 28 16 LONG 108 30 15)

DATE	TIME	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE (DEG C)	DATE	TIME	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE (DEG C)
OCT , 1980				MAY , 1981			
08...	1010	420	9.0	04...	0915	120	4.0
NOV				18...	0915	250	5.0
03...	0920	440	2.0	JUN			
DEC				01...	0445	170	6.5
01...	0855	400	.5	09...	0815	150	10.0
JAN , 1981				JUL			
05...	0920	440	1.0	06...	0840	320	16.0
FEB				AUG			
02...	0925	540	.0	03...	0850	290	16.0
MAR				31...	0830	320	15.0
02...	0910	440	.5				
APR							
06...	0835	480	3.0				

09168100 - DISAPPOINTMENT CREEK NEAR DOVE CREEK, CO. (LAT 37 52 36 LONG 108 34 57)

DATE	TIME	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE (DEG C)	DATE	TIME	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE (DEG C)
OCT , 1980				MAY , 1981			
07...	1620	3200	20.0	04...	1120	520	9.0
NOV				19...	1330	1250	16.0
04...	1530	2820	12.0	JUN			
DEC				03...	0950	1120	13.0
02...	1530	2200	3.0	JUL			
JAN , 1981				07...	1225	4100	25.0
06...	1525	3300	.0	16...	1020	1300	15.0
FEB				AUG			
04...	1220	3000	.0	04...	1435	1980	29.0
MAR				SEP			
04...	1205	3000	5.0	01...	1540	3100	24.0
APR							
07...	1600	2400	15.0				

09172500 - SAN MIGUEL RIVER NEAR PLACERVILLE, CO. (LAT 38 02 05 LONG 108 07 15)

DATE	TIME	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE (DEG C)	DATE	TIME	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE (DEG C)
OCT , 1980				MAY , 1981			
06...	1230	350	11.5	05...	1540	340	10.0
NOV				18...	1250	370	12.0
03...	1240	430	5.0	JUN			
DEC				01...	1405	260	10.5
01...	1200	440	2.0	09...	1320	200	10.0
JAN , 1981				JUL			
05...	1315	390	1.0	06...	1155	330	14.0
FEB				AUG			
02...	1245	450	.0	03...	1245	340	17.0
MAR				31...	1205	350	13.5
02...	1240	440	6.0				
APR							
06...	1220	450	9.0				

DATE	TIME	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE (DEG C)	DATE	TIME	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE (DEG C)

09177000 - SAN MIGUEL RIVER AT URAVAN, CO. (LAT 38 21 26 LONG 108 42 44)

OCT , 1980				APR , 1981			
07...	1335	1250	16.0	07...	1135	770	11.0
NOV				MAY			
04...	1225	900	7.0	05...	1320	320	14.0
DEC				18...	1455	920	17.0
02...	1120	900	2.0	JUN			
JAN , 1981				02...	1315	480	18.0
06...	0820	700	.0	JUL			
FEB				06...	1645	575	26.0
03...	0835	670	.0	AUG			
MAR				04...	1110	890	22.0
03...	1345	940	6.0	31...	1705	1120	24.0

09241000 - ELK RIVER AT CLARK, CO. (LAT 40 43 03 LONG 106 54 55)

OCT , 1980				AUG , 1981			
22...	1400	85	3.5	31...	1230	60	5.0
AUG , 1981							
05...	1040	70	13.0				

09245000 - ELKHEAD CREEK NEAR ELKHEAD, CO. (LAT 40 40 11 LONG 107 17 05)

OCT , 1980				AUG , 1981			
22...	1140	250	4.5	04...	1035	215	18.0
DEC				SEP			
11...	1040	280	.0	09...	1300	200	17.0

09302450 - LOST CREEK NEAR BUFORD, CO. (LAT 40 03 01 LONG 107 28 06)

DEC , 1980				JUN , 1981			
04...	0905	370	1.0	04...	1035	150	9.0
JAN , 1981				JUL			
13...	1035	410	.5	02...	1010	320	14.0
MAR				AUG			
11...	1100	370	1.0	06...	1015	460	12.5
APR				27...	1045	480	12.5
14...	0945	230	2.0				
MAY							
14...	1245	145	8.5				

09302500 - MARVINE CREEK NEAR BUFORD, CO. (LAT 40 02 18 LONG 107 29 15)

DEC , 1980				JUN , 1981			
04...	1045	320	1.5	04...	1135	270	8.5
JAN , 1981				JUL			
13...	1115	240	.0	02...	1100	240	10.5
FEB				AUG			
18...	1030	260	2.0	06...	0920	300	9.0
APR				27...	0900	300	9.0
14...	1040	280	5.0				
MAY							
14...	1330	220	9.0				

09303300 - SOUTH FORK WHITE RIVER AT BUDGES RESORT, CO. (LAT 39 50 36 LONG 107 20 03)

OCT , 1980				MAY , 1981			
09...	1200	150	6.5	19...	1645	120	10.0
MAR , 1981				AUG			
05...	0940	--	.5	26...	1330	55	10.5

09303320 - WAGONWHEEL CREEK AT BUDGES RESORT, CO. (LAT 39 50 34 LONG 107 20 10)

MAY , 1981				AUG , 1981			
19...	1715	210	6.0	26...	1340	55	10.5

09303400 - SOUTH FORK WHITE RIVER NEAR BUDGES RESORT, CO. (LAT 39 51 51 LONG 107 32 00)

JAN , 1981				APR , 1981			
14...	1100	180	.5	21...	1115	180	6.0

09303500 - SOUTH FORK WHITE RIVER NEAR BUFORD, CO. (LAT 39 55 18 LONG 107 33 04)

DATE	TIME	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	TEMPER-ATURE (DEG C)	DATE	TIME	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	TEMPER-ATURE (DEG C)
NOV , 1980				AUG , 1981			
19...	0935	320	.0	27...	1400	260	14.0
JAN , 1981							
14...	1210	200	.5				

09304000 - SOUTH FORK WHITE RIVER AT BUFORD, CO. (LAT 39 58 28 LONG 107 37 29)

DATE	TIME	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	TEMPER-ATURE (DEG C)	DATE	TIME	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	TEMPER-ATURE (DEG C)
DEC , 1980				APR , 1981			
04...	1145	260	1.0	14...	1330	220	10.5
JAN , 1981				AUG			
22...	1000	250	.0	06...	1330	210	18.0
FEB				27...	1520	335	19.5
18...	1315	230	3.0				
MAR							
19...	1130	250	3.5				

09304500 - WHITE RIVER NEAR MEEKER, CO. (LAT 40 02 01 LONG 107 51 42)

DATE	TIME	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	TEMPER-ATURE (DEG C)	DATE	TIME	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	TEMPER-ATURE (DEG C)
DEC , 1980				AUG , 1981			
04...	1350	360	4.5	27...	0845	705	13.0
FEB , 1981							
19...	1240	1000	5.0				

09339900 - EF SAN JUAN R AB SAND CREEK, NR PAGOSA SPGS, CO. (LAT 37 23 23 LONG 106 50 26)

DATE	TIME	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	TEMPER-ATURE (DEG C)	DATE	TIME	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	TEMPER-ATURE (DEG C)
OCT , 1980				JUN , 1981			
03...	1310	140	14.0	01...	1440	85	10.0
NOV				09...	1100	70	12.0
03...	1545	130	9.0	JUL			
MAR , 1981				06...	1700	120	22.0
16...	1130	180	4.0	AUG			
MAY				03...	1405	130	23.0
04...	1015	80	6.0	31...	1220	145	16.0
19...	1130	110	10.0				

09342500 - SAN JUAN RIVER AT PAGOSA SPRINGS, CO. (LAT 37 15 58 LONG 107 00 37)

DATE	TIME	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	TEMPER-ATURE (DEG C)	DATE	TIME	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	TEMPER-ATURE (DEG C)
OCT , 1980				MAY , 1981			
03...	1150	170	11.5	04...	1510	60	11.0
23...	1125	160	3.0	19...	1350	150	13.0
NOV				JUN			
03...	1220	230	8.0	02...	0640	75	6.0
DEC				09...	0910	70	7.5
02...	1405	150	3.0	JUL			
30...	1550	170	1.0	06...	1250	140	21.0
FEB , 1981				AUG			
03...	1420	170	1.0	04...	0830	125	16.0
MAR				31...	1340	140	19.0
04...	1210	200	3.5				
APR							
01...	0940	160	9.0				

09344000 - NAVAJO R AT BANDED PEAK RANCH, NEAR CHROMO, CO. (LAT 37 05 07 LONG 106 41 20)

DATE	TIME	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	TEMPER-ATURE (DEG C)	DATE	TIME	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	TEMPER-ATURE (DEG C)
JUL , 1981				AUG , 1981			
07...	1325	--	14.0	21...	1425	--	19.5
24...	1355	--	24.0	SEP			
AUG				10...	1425	--	15.5
06...	1345	--	18.0				

09346000 - NAVAJO RIVER AT EDITH, CO. (LAT 37 00 10 LONG 106 54 25)

DATE	TIME	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	TEMPER-ATURE (DEG C)	DATE	TIME	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	TEMPER-ATURE (DEG C)
OCT , 1980				MAY , 1981			
03...	1045	220	10.0	04...	1215	140	11.0
NOV				19...	0935	220	7.0
03...	1355	220	8.0	JUN			
DEC				01...	1215	170	13.0
02...	1225	250	.0	JUL			
30...	1300	220	1.0	06...	1500	270	25.0
FEB , 1981				AUG			
03...	1235	900	.5	03...	1730	240	26.0
MAR				31...	1010	260	14.0
04...	1030	630	2.0				
APR							
01...	1115	240	8.0				

09346400 - SAN JUAN RIVER NEAR CARRACAS, CO. (LAT 37 00 49 LONG 107 18 42)

DATE	TIME	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE (DEG C)
OCT , 1980			
02...	1310	330	13.0
NOV			
04...	0835	280	.5
DEC			
01...	1410	340	1.5
31...	1030	380	.5
FEB , 1981			
02...	1240	420	.5
MAR			
04...	1540	460	8.0
APR			
01...	1325	380	13.0
MAY , 1981			
05...	1420	150	10.0
18...	1210	290	11.0
JUN			
02...	1135	130	13.0
09...	1815	100	15.0
JUL			
07...	0955	240	24.0
AUG			
04...	1635	230	28.0
SEP			
01...	0915	280	16.0

09347205 - MIDDLE FORK PIEDRA RIVER NEAR DYKE, CO. (LAT 37 27 10 LONG 107 10 33)

DATE	TIME	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE (DEG C)
OCT , 1980			
03...	0945	70	7.5
NOV			
03...	1030	75	2.0
DEC			
02...	0930	80	.0
30...	1025	110	.0
MAR , 1981			
16...	1445	100	2.0
MAY			
04...	1720	50	10.0
MAY , 1981			
19...	1530	60	11.5
JUN			
01...	0950	<50	6.0
09...	1325	<50	12.0
JUL			
06...	1045	65	17.0
AUG			
03...	1105	60	13.5
31...	1555	75	17.0

09349800 - PIEDRA RIVER NEAR ARBOLES, CO. (LAT 37 05 18 LONG 107 23 50)

DATE	TIME	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE (DEG C)
OCT , 1980			
02...	1415	420	14.0
NOV			
04...	1020	390	6.0
DEC			
01...	1530	440	6.0
31...	0855	430	.0
FEB , 1981			
02...	1355	520	1.0
17...	1205	550	7.0
MAR			
04...	1400	460	8.0
APR			
01...	1440	440	13.0
MAY , 1981			
05...	1150	130	9.0
18...	1340	200	15.0
JUN			
02...	0910	130	11.0
09...	1600	110	17.0
JUL			
07...	0830	350	20.5
AUG			
04...	1445	240	27.0
SEP			
01...	1020	280	17.0

09354500 - LOS PINOS RIVER AT LA BOCA, CO. (LAT 37 00 34 LONG 107 35 56)

DATE	TIME	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE (DEG C)
OCT , 1980			
02...	0930	240	12.0
NOV			
06...	1310	285	2.0
DEC			
01...	1030	300	2.0
31...	1220	220	3.5
FEB , 1981			
02...	1025	180	.0
MAR			
05...	1015	950	5.0
APR			
02...	1150	280	10.0
MAY , 1981			
05...	0945	200	12.0
18...	1015	300	11.0
JUN			
02...	1445	260	21.0
JUL			
07...	1150	250	24.0
AUG			
05...	1225	240	23.0
25...	1020	240	17.0

09355000 - SPRING CREEK AT LA BOCA, CO. (LAT 37 00 40 LONG 107 35 47)

DATE	TIME	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE (DEG C)	DATE	TIME	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE (DEG C)
OCT , 1980				MAY , 1981			
02...	1055	310	12.0	05...	0840	380	10.0
NOV				18...	0910	310	8.0
06...	1100	1000	8.0	JUN			
DEC				02...	1335	290	19.0
01...	0900	1100	.0	JUL			
31...	1335	1200	2.0	07...	1300	400	24.0
FEB , 1981				AUG			
02...	0905	1350	.0	05...	1125	270	19.5
MAR				25...	0915	290	15.0
05...	0905	1400	1.0				
APR							
02...	0940	1300	12.0				

09357500 - ANIMAS RIVER AT HOWARDSVILLE, CO. (LAT 37 49 59 LONG 107 35 56)

DATE	TIME	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE (DEG C)	DATE	TIME	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE (DEG C)
JUN , 1981				AUG , 1981			
11...	1135	--	9.0	15...	0955	--	10.0
30...	1100	--	11.5	31...	1510	--	13.5
JUL				SEP			
15...	1425	--	13.0	30...	1020	--	6.0
28...	1115	--	10.5				

09361500 - ANIMAS RIVER AT DURANGO, CO. (LAT 37 16 45 LONG 107 52 47)

DATE	TIME	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE (DEG C)	DATE	TIME	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE (DEG C)
OCT , 1980				MAY , 1981			
21...	1440	680	8.0	06...	1410	120	11.0
NOV				21...	1325	330	11.0
21...	1255	520	5.0	28...	1415	100	12.0
DEC				JUN			
18...	1400	520	6.0	03...	1150	160	10.0
JAN , 1981				08...	0920	150	9.0
28...	1330	720	3.0	23...	1310	260	14.0
FEB				JUL			
23...	1405	625	6.0	23...	0850	400	16.0
MAR				AUG			
23...	1020	1000	12.0	19...	1145	470	17.0
APR							
21...	1305	510	12.0				

09363050 - FLORIDA R BL FLOR FARMERS DITCH, NR DURANGO, CO. (LAT 37 17 42 LONG 107 47 28)

DATE	TIME	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE (DEG C)	DATE	TIME	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE (DEG C)
OCT , 1980				APR , 1981			
06...	1410	165	16.0	03...	0825	320	4.0
29...	1500	300	7.0	MAY			
NOV				06...	1140	320	12.0
26...	1245	300	1.5	28...	1055	200	12.0
JAN , 1981				JUN			
02...	0845	200	.5	25...	1050	190	12.0
FEB				JUL			
04...	1510	--	1.0	31...	1250	180	16.0
MAR				AUG			
12...	1330	320	4.0	25...	1410	165	15.0

09363100 - SALT CREEK NEAR OXFORD, CO. (LAT 37 08 23 LONG 107 45 10)

DATE	TIME	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE (DEG C)	DATE	TIME	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE (DEG C)
OCT , 1980				MAY , 1981			
06...	1300	145	20.0	06...	1030	1280	13.0
29...	1245	280	7.0	18...	1445	1000	17.0
NOV				28...	0935	260	15.0
26...	1145	400	1.5	JUN			
JAN , 1981				25...	0950	230	19.0
02...	1005	900	.5	JUL			
FEB				31...	1025	180	18.0
04...	1020	--	.0	AUG			
MAR				25...	1140	180	18.0
05...	1330	1000	8.0				
APR							
02...	1315	1200	12.0				

DATE	TIME	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	TEMPER-ATURE (DEG C)	DATE	TIME	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	TEMPER-ATURE (DEG C)
09363200 - FLORIDA RIVER AT BONDAD, CO. (LAT 37 03 24 LONG 107 52 09)							
OCT , 1980				MAY , 1981			
10...	1150	380	13.0	06...	0905	480	11.0
29...	1050	430	5.0	28...	0830	440	15.0
NOV				JUN			
26...	1010	460	1.0	25...	0810	420	18.0
JAN , 1981				JUL			
02...	1140	460	2.0	16...	1120	400	22.0
MAR				31...	0905	320	20.0
12...	1125	1100	7.0	AUG			
APR				25...	1310	350	21.0
02...	1450	450	14.0				
09365500 - LA PLATA RIVER AT HESPERUS, CO. (LAT 37 17 23 LONG 108 02 24)							
JUL , 1981				SEP , 1981			
14...	0910	--	11.5	01...	1200	--	16.0
AUG				15...	0930	--	10.5
04...	1200	--	17.5				
18...	1600	--	13.0				
09366500 - LA PLATA RIVER AT COLORADO-NEW MEXICO STATE LINE (LAT 36 59 59 LONG 108 11 17)							
OCT , 1980				JUN , 1981			
07...	1615	1750	10.0	29...	0740	1050	17.0
27...	0810	1500	5.0	JUL			
NOV				01...	1000	--	23.0
24...	0900	1350	2.0	13...	1445	--	21.5
JAN , 1981				21...	1505	--	23.5
06...	1100	2000	.0	27...	1320	1210	24.0
27...	1330	1650	2.0	AUG			
MAR				04...	1035	--	19.5
03...	1610	1650	8.0	18...	1440	--	23.0
30...	1440	1600	10.0	24...	0800	870	16.0
APR				SEP			
27...	1700	920	19.0	01...	0920	--	16.5
MAY				15...	0745	--	14.0
26...	1345	1210	19.0				
09371000 - MANCOS RIVER NEAR TOWAOC, CO. (LAT 37 01 39 LONG 108 44 27)							
OCT , 1980				APR , 1981			
09...	1145	1750	15.0	27...	1350	1650	19.0
27...	1110	1600	6.0	MAY			
NOV				13...	1130	2400	14.5
17...	1100	1680	1.0	26...	1040	2500	13.0
DEC				JUL			
04...	1145	1800	4.0	27...	1025	2000	21.0
JAN , 1981				AUG			
06...	0845	2200	.0	24...	1115	1480	19.5
27...	1105	2070	.0	SEP			
MAR				08...	1355	1320	22.0
03...	1040	2900	6.0	21...	1250	1750	18.0
30...	1135	2200	9.5				

09371420 - MCELMO CREEK ABOVE ALKALI CANYON, NR CORTEZ, CO. (LAT 37 19 38 LONG 108 38 55)

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	TEMPER- ATURE (DEG C)	DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	TEMPER- ATURE (DEG C)
OCT , 1980				MAY , 1981			
07...	0855	2100	13.0	26...	1525	2000	17.0
28...	0805	2600	4.0	JUN			
NOV				29...	0935	2000	19.5
24...	1345	3000	3.0	JUL			
DEC				13...	1450	2500	24.0
19...	0915	3000	.0	15...	1430	2200	20.0
JAN , 1981				20...	0850	1750	18.0
27...	1350	4000	.0	27...	0855	2400	18.0
MAR				AUG			
02...	1515	3000	5.0	24...	1200	2000	18.0
30...	1330	2900	8.0				
APR							
27...	1150	2350	19.0				

09371495 - MUD CREEK NEAR CORTEZ, CO. (LAT 37 19 10 LONG 108 40 03)

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	TEMPER- ATURE (DEG C)	DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	TEMPER- ATURE (DEG C)
OCT , 1980				MAY , 1981			
07...	1045	3500	9.0	13...	1225	2300	12.0
28...	0850	3500	5.0	26...	1440	2400	16.0
NOV				JUN			
24...	1240	4000	2.5	29...	1130	2650	20.0
JAN , 1981				JUL			
05...	1350	5000	3.0	13...	1320	2400	21.0
27...	0945	4900	1.0	14...	0800	1700	20.5
MAR				15...	1305	2200	20.5
02...	1650	5000	5.0	20...	1000	2300	18.0
30...	1020	5200	6.0	24...	1620	3200	18.0
APR				27...	0950	2700	17.0
27...	1225	3900	15.0				

09371700 - MCELMO CREEK BELOW CORTEZ, CO. (LAT 37 20 26 LONG 108 48 19)

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	TEMPER- ATURE (DEG C)	DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	TEMPER- ATURE (DEG C)
OCT , 1980				MAY , 1981			
07...	1430	2400	10.0	26...	1200	1700	17.0
27...	1455	2500	7.0	JUN			
NOV				29...	1405	1750	27.0
24...	1140	1980	2.0	JUL			
JAN , 1981				13...	0945	1400	20.5
05...	1245	3500	2.0	14...	1330	1600	23.0
27...	1155	3500	.0	15...	1155	1150	18.0
MAR				20...	1350	1500	22.0
02...	1255	3000	6.0	27...	1345	--	23.0
30...	1145	3200	9.0	AUG			
APR				24...	1515	2500	23.0
27...	1030	2000	14.0				

LA PLATA COUNTY

370122107522700 NB 32- 9-18BBB. B. Cogburn. Drilled stock water-table well in Naciemento Formation. Diameter, 6 in (0.2 m). Depth, 138 ft (42.1 m). MP, 0.3 ft (0.1 m) above lsd. Altitude of land surface, 5,980 ft (1,822.7 m). Records available: 1973-81.

Highest water level, 19.18 ft (5.9 m) below lsd, Aug. 26, 1976; lowest water level, 27.3 ft (8.3 m) below lsd, Apr. 30, 1974.

July 31, 1981   22.47 ft

MOFFAT COUNTY

403040107420801 SB 7-92-34DBD. J. Herod. Drilled domestic water-table well in Browns Park Formation. Diameter, 5 in (0.1 m). Depth, 190 ft (57.9 m). MP, 4.0 ft (1.2 m) below lsd. Altitude of land surface, 6,545 ft (1,994.9 m). Records available: 1974-80.

Highest water level, 70.3 ft (21.4 m) below lsd, Feb. 2, 1976; lowest water level, 72.9 ft (22.2 m) below lsd, Nov. 7, 1974.

1981   No measurement

MONTEZUMA COUNTY

370410108583701 NB33-20-25CDC. Ute Indian Tribe. Drilled stock water-table well in Dakota Sandstone. Diameter, 5 in (0.1 m). Depth, 250 ft (76.2 m). MP, 2.0 ft (0.6 m) above lsd. Altitude of land surface, 4,900 ft (1,493.5 m). Records available: 1973-81.

Highest water level, -1.59 ft (+0.48 m) above lsd, Sept. 30, 1975; lowest water level, 52.12 ft (15.5 m) below lsd, Aug. 18,1980.

Aug. 10, 1981   59.43 ft

09250600 WILSON CREEK NEAR AXIAL, CO

REVISIONS.--In WDR-CO-75-2, 76-2, and WDR-CO-77-3, 78-3, 79-3, and 80-3, the drainage area was published in error. The correct figure is 27.4 mi² (71.0 km²).

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October 1, 1978

FACTORS FOR CONVERTING INCH-POUND UNITS TO INTERNATIONAL SYSTEM UNITS (SI)

The following factors may be used to convert the inch-pound units published herein to the International System of Units (SI). This report contains both the inch-pound and SI unit equivalents in the station manuscript descriptions.

Multiply inch-pound units	By	To obtain SI units
	Length	
inches (in)	$2.54x10^{1}$	millimeters (mm)
	$2.54x10^{-2}$	meters (m)
feet (ft)	$3.048x10^{-1}$	meters (m)
miles (mi)	$1.609x10^{0}$	kilometers (km)
	Area	
acres	$4.047x10^{3}$	square meters (m^{2})
	$4.047x10^{-1}$	square hectometers (hm^{2})
	$4.047x10^{-3}$	square kilometers (km^{2})
square miles (mi^{2})	$2.590x10^{0}$	square kilometers (km^{2})
	Volume	
gallons (gal)	$3.785x10^{0}$	liters (L)
	$3.785x10^{0}$	cubic decimeters (dm^{3})
	$3.785x10^{-3}$	cubic meters (m^{3})
million gallons	$3.785x10^{3}$	cubic meters (m^{3})
	$3.785x10^{-3}$	cubic hectometers (hm^{3})
cubic feet (ft^{3})	$2.832x10^{1}$	cubic decimeters (dm^{3})
	$2.832x10^{-2}$	cubic meters (m^{3})
cfs-days	$2.447x10^{3}$	cubic meters (m^{3})
	$2.447x10^{-3}$	cubic hectometers (hm^{3})
acre-feet (acre-ft)	$1.233x10^{3}$	cubic meters (m^{3})
	$1.233x10^{-3}$	cubic hectometers (hm^{3})
	$1.233x10^{-6}$	cubic kilometers (km^{3})
	Flow	
cubic feet per second (ft^{3}/s)	$2.832x10^{1}$	liters per second (L/s)
	$2.832x10^{1}$	cubic decimeters per second (dm^{3}/s)
	$2.832x10^{-2}$	cubic meters per second (m^{3}/s)
gallons per minute (gal/min)	$6.309x10^{-2}$	liters per second (L/s)
	$6.309x10^{-2}$	cubic decimeters per second (dm^{3}/s)
	$6.309x10^{-5}$	cubic meters per second (m^{3}/s)
million gallons per day	$4.381x10^{1}$	cubic decimeters per second (dm^{3}/s)
	$4.381x10^{-2}$	cubic meters per second (m^{3}/s)
	Mass	
tons (short)	$9.072x10^{-1}$	megagrams (Mg) or metric tons